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KNOX ENERGY

ASSESSMENT REPORT ON
1990 EXPLORATION PROGRAM ON
GENERAL EXPLORATION LICENSES
15248, 15258, 15259, 15260, 15261 AND 15516
NUTTBY MOUNTAIN
COLCHESTER COUNTY, NOVA SCOTIA
NTS: 11E/11

by

Seabright Explorations Incorporated
Lower Sackville, Nova Scotia

November 1990

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Geologist

DUPLICATE AVAILABLE

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1. INTRODUCTION

During the summer of 1990 Seabright Explorations Incorporated (Seabrex) undertook a field program in Colchester County to explore 348 claims held under six General Exploration Licenses. The program of mapping, prospecting, soil sampling and stream sediment sampling was designed to evaluate potential for structurally hosted or epithermal gold/silver mineralization.

Stream sediment sampling on all of the first order streams located several areas of elevated gold, including a sample from Munroe Brook with 2510 ppb Au in the HMC containing visible gold. The claims to the northwest, mainly Map 2a, seem to have higher gold values than elsewhere on the property. Mapping and prospecting revealed the underlying bedrock to be basalts. Many boulders of silicified rhyolite with varying amounts of finely disseminated pyrite ranging from < 1% to 3% are common.

Claims to the southeast generally produced lower gold values than the northwest (Map 2b). The area is underlain by felsic volcanic, tuffs and rhyolites along with intrusions of granodiorite. Sediments are found in the extreme southern portions of license 15516.

2. LOCATION AND ACCESS

The Nuttby Mountain Exploration Licenses are located within NTS map sheet 11E/11 between Truro and Tatamagouche Colchester County (Figure 1). Access to the northwestern claims is gained via Route 246 off the Trans Canada Highway (Hwy 104) and a network of bush roads. The southeastern block is best accessed via Route 311 between Truro and Tatamagouche.

3. PROPERTY HOLDINGS

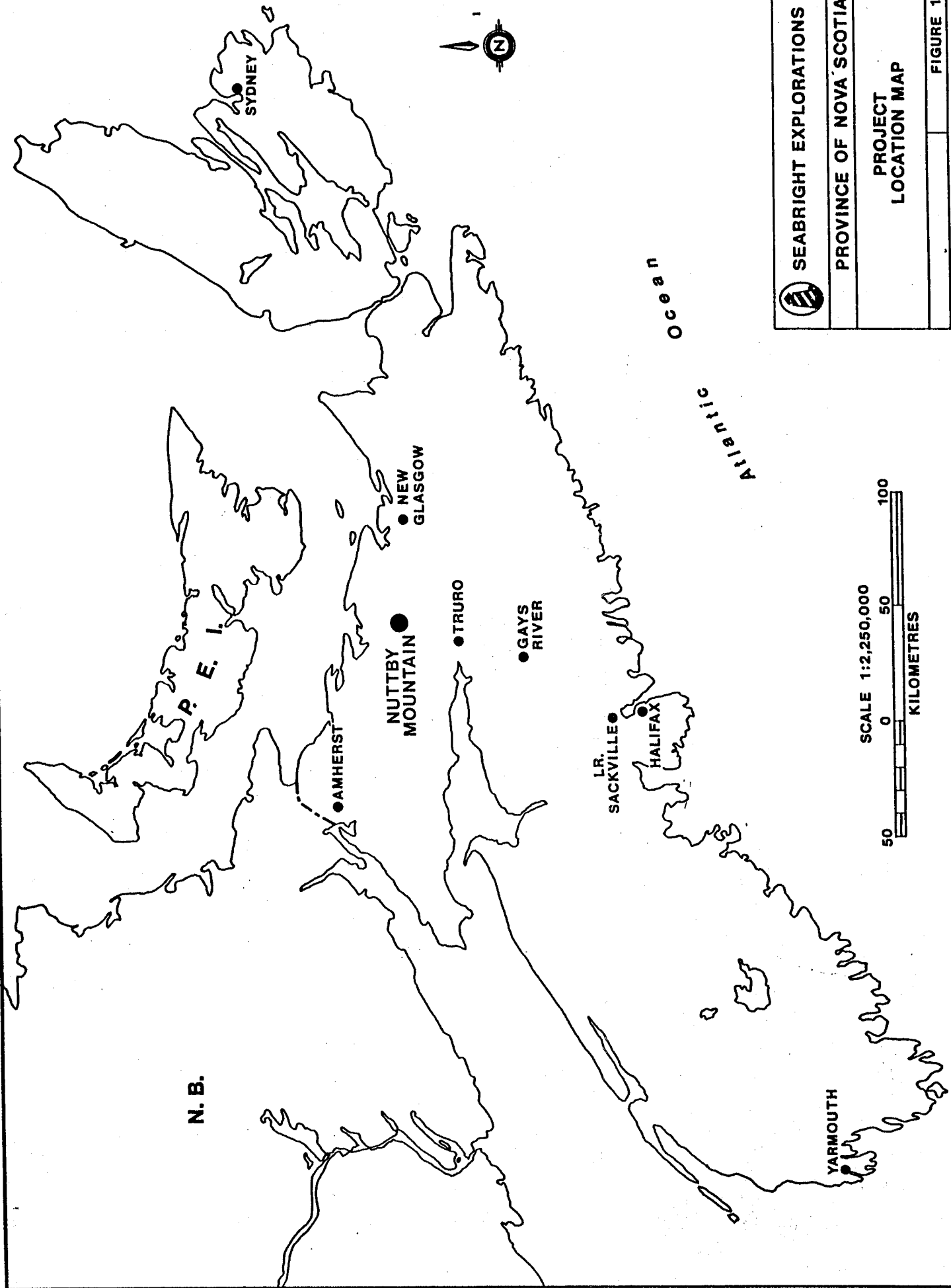
A total of 348 claims are held under six exploration licenses at Nuttby Mountain. Table 1 provides claim, tract and map reference numbers for all exploration licenses. The exploration licenses are also presented in Figure 2.

4. PHYSIOGRAPHY

The Nuttby Mountain claims straddle the Cobequid Mountains. Flat to generally rolling topography to the north and south of the hills are covered by soft wood and pastures. Broad, rounded hills in the center, covered by softwood, clearcutting and maple sugar groves, are deeply cut by streams. Exposure is generally good in the streams and along the sides of the hills. However, thick till (3-8 m) cover is found in the lowlands.

5. ANALYTICAL PROCEDURE

All samples collected during this program were sent to M-Tech Inc. for sample preparation and then to Bondar-Clegg in Ottawa for analysis. Appendix I outlines the procedures which each sample underwent from preparation to analysis.



SEABRIGHT EXPLORATIONS INC.

PROVINCE OF NOVA SCOTIA

PROJECT
LOCATION MAP

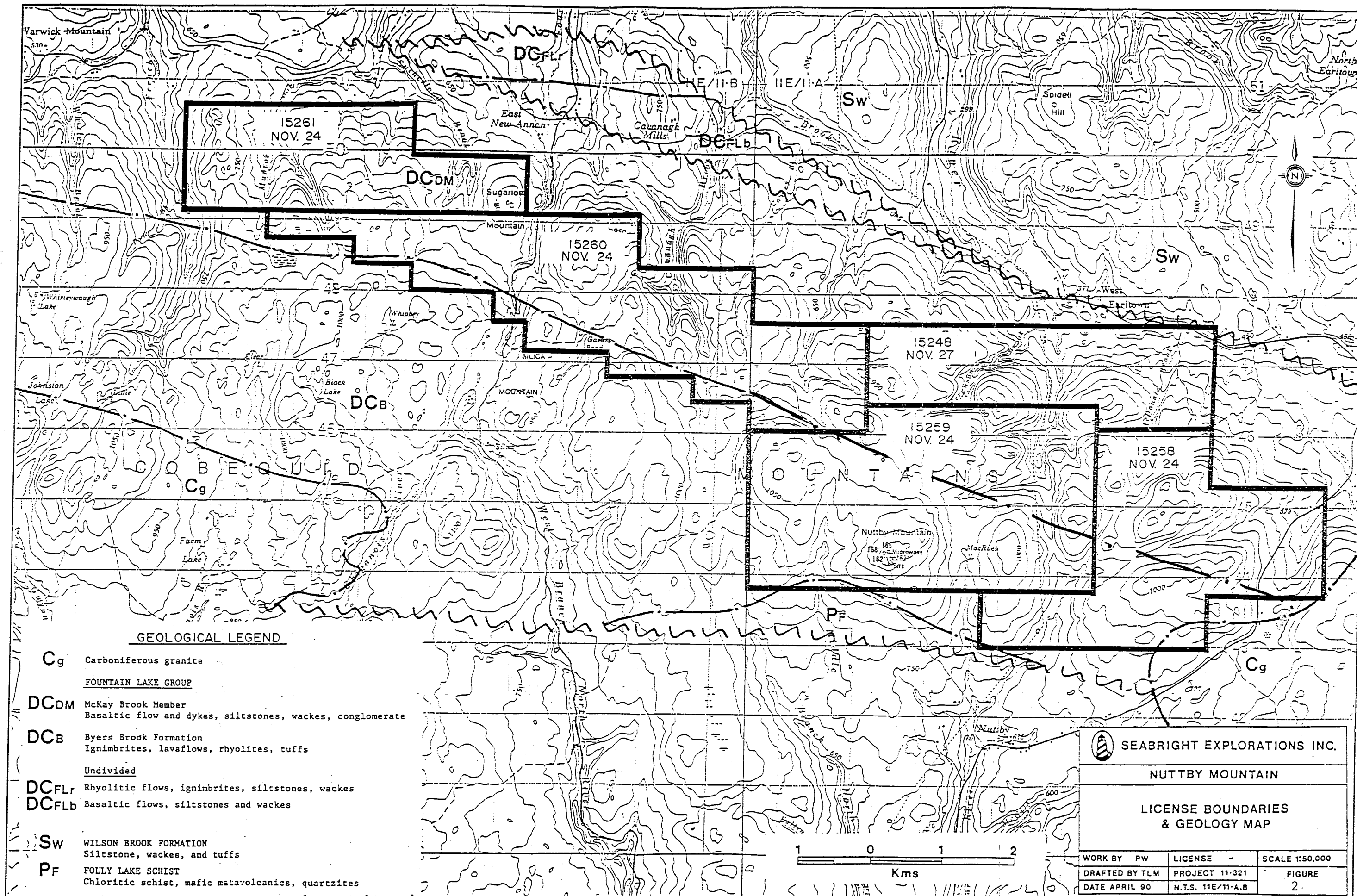
FIGURE 1

TABLE 1

<u>License</u>	<u>Claims</u>	<u>Tract</u>	<u>Reference Map</u>
15248	J,K,L,M,N,O,P,Q	56	11E/11A
	E,F,G,H,J,K,L,M,N,O,P,Q	62	11E/11A
	E,F,G,H,J,K,L,M,N,O,P,Q	63	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	64	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	65	11E/11A
15258	A,B,C,D,E,F,G,H	39	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	40	11E/11A
	J,K,L,M,N,O,P,Q	41	11E/11A
	A,B,C,D,E,F,G,H	56	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	57	11E/11A
15259	J,K,L,M,N,O,P,Q	37	11E/11A
	J,K,L,M,N,O,P,Q	38	11E/11A
	J,K,L,M,N,O,P,Q	39	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	58	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	59	11E/11A
	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	60	11E/11A
	A,B,C,D	62	11E/11A
	A,B,C,D	63	11E/11A
15260	A,B,C,D,E,F,G,H,J,K,L,M,N, O,P,Q	61	11E/11A
	J,N,O,P	71	11E/11B
	G,H,J,K,L,M,N,P,Q	72	11E/11B

TABLE 1 (cont'd)

15260	A,B,C,D,E,F,G,H	73	11E/11B
	A,B,C,D,E,F,G,H,J,K,L,M,N,		
	O,P,Q	74	11E/11B
	A,E,F,G,H,J,K,L,M,N,O,P,Q	75	11E/11B
	J,K,N,O,P,Q	76	11E/11B
	Q	77	11E/11B
15261	A,B,C,D,E,F,G,H,J,K,L,M,N,		
	O,P,Q	92	11E/11B
	A,B,C,D,E,F,G,H,J,K,L,M,N,		
	O,P,Q	93	11E/11B
	A,B,C,D,E,F,G,H	94	11E/11B
15516	J,K,L,M,N,O,P,Q	33	11E/11A
	J,K,L,M,N,O,P,Q	34	11E/11A
	Q	35	11E/11A
	A,B,C,D,E,F,G,H	37	11E/11A
	A,B,C,D,W,F,G,H	38	11E/11A



GEOLOGICAL LEGEND

- Cg** Carboniferous granite
- FOUNTAIN LAKE GROUP**
- DCDM** McKay Brook Member
Basaltic flow and dykes, siltstones, wackes, conglomerate
- DCB** Byers Brook Formation
Ignimbrites, lavafloes, rhyolites, tuffs
- Undivided**
- DCFLr** Rhyolitic flows, ignimbrites, siltstones, wackes
- DCFLb** Basaltic flows, siltstones and wackes
- Sw** WILSON BROOK FORMATION
Siltstone, wackes, and tuffs
- Pf** FOLLY LAKE SCHIST
Chloritic schist, mafic metavolcanics, quartzites

 SEABRIGHT EXPLORATIONS INC.

NUTTBY MOUNTAIN

LICENSE BOUNDARIES
& GEOLOGY MAP

WORK BY PW	LICENSE -	SCALE 1:50,000
DRAFTED BY TLM	PROJECT 11-321	FIGURE
DATE APRIL 90	N.T.S. 11E/11-A.B	2

6. GENERAL GEOLOGY

6.1 Regional Geology (Cullen, 1984)

The Cobequid Highlands extend across north central Nova Scotia for approximately 170 kilometres and are underlain by deformed and undeformed, plutonic, sedimentary, volcanic and metamorphic rocks. To both north and south sub-parallel Carboniferous sedimentary basins flank the zone and show differing contact relationships with the older rocks of the Highlands. At the surface along the north side Pennsylvanian clastic sedimentary rocks of the Riversdale Group (Kelly, 1966; Poole, 1967) unconformably onlap the Highlands while similar age rocks along the south side of Parrsboro (Donohoe & Wallace, 1980) have been disrupted by movement along splays of the Glooscap Fault Zone.

Donohoe and Wallace (1980) presented a 1:50,000 scale geology map of the Highlands and described numerous distinct litho-tectonic units ranging in age from Late Precambrian to Lower Carboniferous. The distribution of these units is outlined in Figures 3a and 3b, a reduced and somewhat simplified version of this map. This figure and the accompanying stratigraphic table of Figure 3b are from a field trip guide prepared by the same authors for the 1980 GAS-MAC conference and provide a suitable framework for the following brief outline.

The Mount Thom and Bass River Complexes are at least partially correlative (Donohoe and Cullen, 1983) and have been inferred by Keppie (1981) to be crystalline basement terranes upon which the Late Hadrynian volcanic-sedimentary sequences of the Jeffers Brook and Warwick Mountain Formations accumulated.

Lower Paleozoic stratigraphic development in the Cobequid Highlands approximates that of the type Avalon Zone of Newfoundland as described by Williams (1978) but distinct variations in total section thicknesses are, of course, evident. No Cambrian

Legend for the Geological Map of the Cobequid Highlands

STRATIFIED ROCKS

PLUTONIC ROCKS

MESOZOIC	TRIASSIC TO JURASSIC	31	FUNDY GROUP: undivided, quartz, lithic, wacke, siltstone, polymictic conglomerate; basalt flows	
		30	PICTOU GROUP: grey, red wacke, siltstone, conglomerate; coal	
		29	CUMBERLAND GROUP: grey, red siltstone, wacke; coal; red-brown conglomerate	
		27 28	RIVERSDALE GROUP: (28) BOSS POINT FN.: grey, red siltstone, lithic wacke; (27) FARRSBORO FN.: grey, red wacke, siltstone	
		25 26	CANSO GROUP: (26) LONDONDERRY FN.: green, grey quartz wacke, siltstone, shale; (25) WEST BAY FN. AND CANSO GROUP: grey, red, green siltstone, wacke, shale	
		24	WINDSOR GROUP: grey limestone, red, grey siltstone, shale	23 granite (syenogranite to alkali feldspar granite; granodiorite to monzogranite)
		22	HORTON GROUP: grey, red siltstone, quartz wacke, shale	
		20 21	(21) RAPID BROOK, GREVILLE RIVER FMS.: grey, tan siltstone, wacke, granite-clast, conglomerate; (20) NUTTRY FN.: grey, red lithic wacke, siltstone, shale; conglomerate	19 granite (monzogranite to alkali feldspar granite)
				18 diorite
PALEOZOIC	DEVONIAN TO CARBONIFEROUS	17	FALLS FN.: red-brown polymictic conglomerate, lithic wacke	
		16 15 14	(16) FOUNTAIN LAKE GROUP: (15) DIAMOND BROOK FN.: basalt flows, red, grey siltstone; (14) BYERS BROOK FN.: tan rhyolitic, dacitic lava flows, ignimbrites, tuffs, grey siltstone	
		13	MURPHY BROOK FN.: black, grey siltstone, wacke, polymictic conglomerate	
		12	PORTAPIQUE RIVER FN.: red, green siltstone, quartz and lithic wacke	
		10 11	(11) WILSON BROOK FN.: grey siltstone, quartz wacke, shale; red siltstone; granite-clast conglomerate; (10) EARLTOWN FN.: grey siltstone, wacke, calcareous siltstone; tan, green rhyolite flows, ignimbrites, ash-fall tuffs; (11A) unnamed black, grey siltstone, lapilli tuff; (11B) unnamed grey, tan, red siltstone, quartz arenite and wacke, granite clast polymictic conglomerate; may be younger	
				9 McALLAN SETTLEMENT GRANITE (syenogranite)
				7 8 (8) granite (alkali feldspar granite, syenogranite) (7) diorite
				6 JEFFERS BROOK DIORITE
		4 5	(5) WARWICK MOUNTAIN AND (4) JEFFERS FMS.: green, grey basic meta-volcanic rocks, meta-tuff, meta-wacke; marble	
				3 granite gneiss
PROTEROZOIC	PRE-MADRYNIAN	2	BASS RIVER COMPLEX: biotite schist, quartzite, chlorite schist, gneiss	
		1	MT. THOM COMPLEX: biotite-garnet gneiss; granite gneiss; amphibolite	

FIGURE 33B

sedimentary or volcanic accumulations have been mapped in the Highlands although Cambrian rocks were defined 120 kilometres to the east by Benson (1974) and Murphy et al. (1982) in the Antigonish Highlands.

Middle Ordovician to Early Silurian cleaved siltstone, shales, volcanic wackes, and lapilli tuffs characterize the unnamed OS-2 and OS-3 units of Donohoe and Wallace (1980) in the Cobequids and in combination with Early to Late Silurian Wilson Brook and Earltown Formations of the same workers record pre-Lower Devonian sedimentation and restricted volcanism.

The Early Mid-Devonian Portapique River Formation and Murphy Brook Formation (Donohoe and Wallace, 1980), consisting of siltstones, lithic wacke, polymictic conglomerate and volcanic conglomerate complete the pre-Acadian stratigraphic succession and mark a transition from predominantly marine to terrestrial conditions of sedimentation. These rocks were affected to varying degrees by Acadian deformation (Donohoe, 1980) and intruded by large volumes of Late Mid-Devonian to Early Carboniferous diorite and granite.

The Londonderry Formation and Nuttby Formation are the youngest stratified sequences within the Highlands. The former occurs as a fault lenticle along the southern boundary of Bass River Complex and the latter unconformably overlies older rocks and was intruded by Early Carboniferous granite.

6.2 Local Geology

The Nuttby Mountain - Earltown claims are underlain by two Devonian-Carboniferous Formations of the Fountain Lake Group.

Rocks of the Byers Brook Formation form a general northwest-southeast trending belt of ignimbrites, rhyolitic lava flows, tuffs

and minor volcanic sediments exposed in the southern half of the property. Basaltic flows, associated dikes, intrusions, siltstone, wackes and polymictic conglomerates of the McKay Brook member of the Diamond Brook Formation are exposed north of a conformable contact with the Byers Brook Formation. Although poorly exposed along the contact, quartz wacke has been noted concordant and conformably between the two units (Donahoe and Wallace, 1982). Carboniferous granitic and dioritic rocks of subvolcanic origin are in sharp contact south of the Byers Brook Formation (Figure 3a, 3b).

Reconnaissance mapping, prospecting and sampling were carried out over the entire claim group. Work was limited to roads, trails, most first order streams and a few cross-country traverses southeast of Nuttby Mountain. The claims to the northwest (Map 1a) cover most of the McKay Brook Member of the Diamond Lake Formation. The contact of this unit with the Byers Brook Formation runs parallel and approximately on the southern boundary of the 15260 license and into the heart of the main claim group on the 15259 license (Figure 2). Numerous boulders, from the Byers Brook Formation, of pyritic, silicified, brecciated, welded tuff, with extensive quartz veining were identified in high ground east of Nuttby Mountain. West of Nuttby Mountain, similar boulders showing silicification, bleaching, brecciation and quartz veining with disseminated pyrite mineralization were also noted. An outcrop of medium-grey to white, highly siliceous quartzite with minor pyrite (< 1%) is located approximately 500 metres south of MacRae Lake. Several samples of this outcrop and adjacent pyritic rhyolite tuff outcrop provided low Au results, with the highest value being 15 ppb Au.

Rusty, silicified rhyolite boulders are common in the streams draining north on the claims to the northwest (Licenses 15260 and 15261). These boulders may be associated with the contact zone of the Byers Brook Formation with the Diamond Brook Formation.

Till cover on the property is moderately thick (2-5 m), accounting for the poor outcrop exposure. Higher topographic areas appear to have thinner till cover, indicated by greater outcrop exposure.

7. GEOCHEMISTRY

Compilation of government and industry stream geochemical results in early 1989 suggested that drainages with headwaters in the Byers Brook Formation support copper, lead, zinc, molybdenum, silver and gold anomalies. In the fall of 1989, Seabrex focussed a reconnaissance stream geochemistry and prospecting program to evaluate these drainages. In the summer of 1990, all first-order streams in the Nuttby Mountain area were tested for -200 fraction silts and heavy metal concentrates (HMC) along with mapping and prospecting.

All samples were sent to M-Tech Inc. in Elmsdale, Nova Scotia for preparation and forwarded to Bondar-Clegg and Company laboratories in Ottawa, Ontario for multi-element analysis. Laboratory preparation and analytical methods are described in Appendix V.

A total of 77 stream sediment, 196 "B" horizon soils and 57 rock samples were collected on the property. The stream sediment samples were sieved to the -10 size fraction in the field and a 5 to 10 kilogram sample was the norm. The -10, +100 material underwent multi-stage sieving at the lab and the individual components were processed by an elutriation method to derive a heavy mineral concentrate (HMC).

The fine (-200) fraction of the sample and the HMC were analyzed separately and there are, therefore, two sets of results for each sample. In Appendix III, results for the -200 fraction are given first, followed by the HMC results.

Past experience has determined "rule-of-thumb" anomalous levels in stream sediments of greater than 20 ppb Au for the -200 fraction and greater than 100 ppb for the HMC. Soil values of greater than 10 ppb Au, and rock samples with 100 ppb Au are considered significant.

Stream sediment samples were collected from bar deposits, downstream from large boulders and also from material trapped by log jams, etc. Theoretically, it is expected that the HMC component would be deposited first, at the upstream end of the bar, while the fine material would be on the downstream end. However, due to the steep nature of most brooks and poor siltation, samples were taken wherever a suitable volume of stream sediment could be collected. Therefore, field sampling may be the controlling factor as to which of the results (-200 versus HMC) is more representative of a particular sample. All anomalies should be considered significant with particular emphasis placed on streams with more than one anomaly.

A grid (Grid A) was flagged over an area of pyritic boulders within the Byers Brook Formation, located southeast of MacRae Lake. Soils were taken at 50-metre intervals on flagged grid lines spaced 50-metres apart. Analytical results showed no gold values greater than 5 ppb (Appendix IV).

Rock samples were taken from various areas on the property with the highest gold value being 114 ppb Au. No other significant results were received (Appendix II).

7.1 Discussion

The focus of work performed this field season was to evaluate potential for structurally hosted or epithermal gold and silver mineralization. Mapping, prospecting and stream sediment sampling

TABLE 2
Summary of Anomalous Stream Areas

<u>Area</u>	<u>Sample No. & Values</u>	<u>Geology</u>	<u>Exploration</u>
French River & Porter Bk	4304 (61/17) Au	McKay Brook Member (Diamond Bk Formation) Basalts	North of Byers Brook Formation/McKay Brook Member. Contact is source of pyritiferous silicified greywacke
	4303 (11/330) Au		
	4305 (59/979) Au		
	4010 (75/2230) Au		
	4011 (8/470) Au		
Munroe Brook	4306 (11/2510) Vg	McKay Brook Member (Diamond Bk Formation) Basalts	North of Byers Brook Formation/McKay Brook Member. Contact is source of pyritiferous silicified greywacke
	4014 (995/ 5)		
East Tributary of Munroe Brook	4313 (123/5)	McKay Brook Member (Diamond Bk Formation) Basalts	North of Byers Brook Formation/McKay Brook Member. Contact is source of pyritiferous silicified greywacke
	4015 (251/ 5)		
Sutherland's Brook	4016 (260/6)	McKay Brook Member of the Diamond Brook Formation	Numerous quartz veinlets in basalt * almost 3 kms straight-line-distance to the contact
	4317 (22/1700)		
	4017 (1750/594)		
Ferguson Brook	4020 (20/200)	McKay Brook Member of the Diamond Brook Formation	Located 2 km north of contact location
	4021 (172/460)		
	4022 (205/52)		
MacDonald Brook	4023 (1060/ 5)	McKay Brook Member of the Diamond Brook Formation	Located 2 km north of contact location
	4024 (343/10)		

indicates the claims to the northwest (primarily in Licenses 15260, 15261) are the most interesting for continued gold exploration. Most of the streams draining the contact area of the Byers Brook formation with the Diamond Brook Formation ("contact-zone") have anomalous gold in the sediments. Sample BB-4306 (Munroe Brook, Map 2a) contained three sites of visible gold with an HMC value of 2510 ppb Au, and BB-4014, taken 525 metres upstream, contained 1948 ppb in the -200 fraction. Other samples taken on Munroe Brook proved to be slightly anomalous. All streams west of Ferguson Brook were anomalous in gold. Many of the streams contained oxidized light buff-brown to tan colour silicified pyritic rhyolite boulders.

The basalt outcrops in the streams show no apparent alteration or mineralization. It is concluded that a possible source for the anomalous gold in these streams could be the "contact zone" of the two formations, which lies along or just south of the southern boundary of the northwest claims blocks (Licenses 15260, 15261), and projects through the heart of the main claims (License 15259).

In Sutherlands Brook, sample BB-4017 (1750/594) (fines -200/HMC) is located in an area of basalt outcrop with numerous quartz veinlets. This is at least 3 kilometres north of the "contact zone". However, the brook does drain this zone.

The highest Au value from a rock sample (54773) was 114 ppb in a boulder found near the center of Grid A. This is light-pink cherty tuff with a zone of dark alteration and intense silicification containing three to five percent fine-grained disseminated pyrite. Other pyritic tuffs and siliceous rhyolites sampled in the area provided no significant results.

8. SUMMARY AND CONCLUSIONS

The best results to date have been picked out by regional stream sediment surveys. The majority of anomalies are found in the northwest section of the claim group, near the contact of the Byers Brook Formation and the Diamond Brook Formation. All the anomalies were followed-up late in the fall by prospecting and further stream sediment sampling. Follow-up work confirmed the anomalies. Numerous boulders of highly siliceous pyritic rhyolite were found while prospecting these anomalous areas. It is believed that these boulders may be from the contact area to the south which could be the source of gold. To the west, a gold showing at Warwick Mountain occurs in similar geology.

Gold anomalies found in the lower portions of Sutherland Brook are as yet not fully explainable. They lie at least 3 kilometres north of the proposed contact zone. Numerous quartz veinlets in the basalt upstream from the anomalous area may contain sufficient gold to produce elevated gold in the stream sediments. Samples of the quartz veinlets were not taken.

9. RECOMMENDATIONS

Seabrex spent \$34,116.66 on exploration at Nuttby Mountain this field season. One hundred and seventy claims can be kept with this expenditure. Most claims in the northwestern block should be held while claims to be dropped should be from the southeastern corner.

Detailed mapping and prospecting are recommended for the southern portions of Licenses 15260 and 15261. An option agreement with Cameco, who hold the ground to the south and west, should be considered. This would assure Seabrex of obtaining the "contact zone" which is drained by streams with anomalous gold.

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11. STATEMENT OF QUALIFICATIONS

1. I hold a Bachelor of Science degree in Geology (1985) from Saint Mary's University.
2. I am currently employed as a Temporary Geologist with Seabright Explorations Incorporated.
3. I have been employed in mineral exploration continuously since graduation.

Respectfully submitted,

David Hogg
Geologist

APPENDIX I
ROCK SAMPLE DESCRIPTIONS

SEABRIGHT EXPLORATIONS INCORPORATED
NUTTBY MOUNTAIN
ROCK SAMPLE DESCRIPTIONS

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54768	boulder	(PW-90-14) large boulder, 2 m x 1.5 m of grey to pink porphyritic rhyolite generally flow banded with fine quartz stringers crosscutting bands minor to trace pyrite
54769	float	(PW-90-15) (E of MacRae L) very silicified white to light coloured quartzite altered from tuff? shadows of porphyry no visible min ⁿ
54770	float	(PW-90-16) (S of McRea L) white highly silicified quartz rich boulders trace sericite trace hematite? no visible min ⁿ
54771	outcrop boulders	(PW-90-17 (S MacRae L) white highly silicified quartzite very fine grained to glassy to aphanitic white feldspar veinlets no visible min ⁿ
54772	float	(PW-90-18) sample of whiteish medium grain felsic volcanic visible xl structure trace to minor fine disseminated pyrite similar to quartzite
54773	boulder	(PW-90-19) hard light pink cherty tuff welded ? with zone of dark alteration with 3-5% fine disseminated pyrite locally on side of N-S bush road main area intense silicification

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54774	boulder	(PW-90-20) purplish-pink rhyolite tuff with brecciation locally and infilling with white quartz local silicification trace pyrite
54775		(PW-90-21) white quartz with andesite wall rock minor K-spar
54776	outcrop	(PW-90-22) light to medium green, medium grained chloritic andesite, plagioclase with quartz veins, zone of strongly sheared metavolcanics with lots of quartz veins
54777		(PW-90-22B) quartz with chloritic selvage
54778	outcrop	(PW-90-23) (bush road in cut over area at W edge of main block) medium to dark green highly siliceous aphanitic rhyolite
54779		(PW-90-24) rhyolite tuff dark red to purple with tuff crystals in porphyry trace pyrite local Fe staining
54780	boulder	(PW-90-25) (fence line in blueberry field off Earltown Rd) very siliceous white to translucent volcanic? with chlorite bands, minor fine disseminated pyrite
54781	boulder	(PW-90-26) quartz with strong fabric chlorite and sericite along fabric Fe staining
54782	outcrop	(DH-90-23) (Grid A, 1+50E, 0+25S) very fine grained aphanitic medium grey rhyolite with occasional quartz eyes
54783	outcrop	(DH-90-24) (Grid A, 2+00E, 1+00S) highly fractured dark grey siliceous 1% disseminated pyrite

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54784	boulder	(PH-90-23) (875 m E on new road E of Grid & powerline) felsic volcanic, highly siliceous, 1-2% very fine grained medium grey similar to boulders on Grid, several similar boulders in area
54785	outcrop	(PH-90-24) (approx. 1km E of Grid on brook running E-W) rusty felsic volcanic with pyrite (taken because of outcrop status)
54786	subcrop	(PH-90-25) (475 m S of swamp, S of MacRae L, 25 m W of brook) highly silified "quartzite" similar to PW-90-17 (54771) different area
54787	boulder	(PH-90-26) (300-400 m NNW of MacRae L (100 m W of sm swamp)) very highly silicified felsic volcanic with quartz veining ≤ 1% pyrite
54788	outcrop	(PH-90-27) (in clear cut N edge SW of Nuttby Mtn, N of cabin in blueberry field) rhyolite porphyry very fine grained, Fe stain, ≤ 1% pyrite dark-grey brown-grey
54789	outcrop	(PH-90-28) (425 m E on road which goes to Ignimbrite clear cut, W of Nuttby Mtn) felsic (rhyolite) tuff or porphyry Fe staining medium grey-brown
54790	boulder	(PH-90-29) (same road as 54789, approx. 500 m ENE) Fe stained, felsic volcanic, highly silicified, 1-2% pyrite locally, grey-brown angular boulder - subcrop?
54791	outcrop	(PH-90-30) (blueberry field 2 km E of Grid, W of Rte 311 by small cabin, NW corner of field) quartz milky white to translucent, Fe staining, pyrite, chalcopyrite

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54792	outcrop	(PH-90-31) (100 m N or NE of 54791) outcrop of chl volcanic with quartz with pyrite, possible chalcocite? (weathered chalopyrite)
54793	boulder	(PH-90-32) (250 m E of S end of clear cut, S of cabin) andesite, light grey silicified
54794	outcrop	(PH-90-33) (quartzite zone 700 m S of MacRae Lk, 25 m W of brook) rhyolitic tuff - outcrop close to PH-90-25 (54786) which was quartzite, chloritized, silicified possible trace pyrite
54795	boulder	(PH-90-34) (quartzite zone 700 m S of MacRae Lk. This sample from 100 m @ 260° from PW-90-17 (54771)) green-grey aphanitic quartzite, possibly former felsic tuff with ~1% very fine grained disseminated pyrite, sugary texture - similar to many other boulders in area
54796	large boulder 3m x 3m	(PW-90-27) (siliceous zone 700 m S of MacRae Lk; close to 54771) light grey siliceous tuff with bluish quartz eyes and feldspar porphyry; could be original rock of siliceous zone but not as siliceous - other large boulders in area, 10 to 15 m from 54771
54797	outcrop - subcrop	(PW-90-28) (siliceous zone) This sample and next few are along a seasonal brook approx. 125 m N of 1st zone located strongly foliated tuff with sericite to pyrophyllitic alteration along slaty cleavage
54798	boulder	(PW-90-29) (siliceous zone - seasonal brook) light green altered siliceous tuff with phyllic alteration 1-2% disseminated pyrite and in grey patches locally to 5%; possibly other sulphides; possibly siliceous version of PW-90-28 (54797)

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54799	boulder	(PW-90-30) (siliceous zone - seasonal brook - flows E towards MacRae Bk) brecciated felsic tuff; light yellow colour with fragments in yellow to blue-green matrix (siliceous) bluish quartz porphyry in matrix ≤ 1% disseminated pyrite locally and late stage quartz veinlets
54800	boulder .75m x .25 m	(PW-90-31) (siliceous zone - seasonal brook) medium green very fine grained with strong foliation; very fine grained disseminated pyrite ≥ 1%
54801	outcrop	(PW-90-32) (siliceous aone - seasonal brook) very fine to aphanitic tuff; light blue-green with fine chlorite hair line veinlets locally siliceous; locally finely laminated; trace pyrite
54802	boulder .25 m x .25 m	(PW-90-33) (siliceous zone - seasonal brook) bleached white medium grained hematite, Fe staining along developed cleavage; minor disseminated pyrite
54803	boulder	(PW-90-34) (siliceous zone - seasonal brook) altered light to medium grey tuff, highly siliceous with visible remnant grain structure; Fe and hematite staining along fractures, trace pyrite, similar to 54802 - less siliceous version of quartzite
54804	boulder subcrop	(PW-90-35) (siliceous zone - seasonal brook) light grey siliceous aphanitic to cherty altered tuff remnant pink feldspar porphyroclasts
54805	boulder	(PW-90-36) (150 m SW of PW-28 (54797) and 190 m @ 120° to 54771) light yellow-green phyllic altered felsic tuff; minor sericite alteration along fracture planes with fine disseminated pyrite (1-3%) and up to 5% in patches locally

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54806	boulder .70 x .60 m	(PW-90-37) light to medium grey-blue very fine grained intermediate volcanic siliceous alteration with $\geq 2\%$ fine grained disseminated pyrite
54807	boulder	(New Area) (DH-90-25) (1950 m up (South) on MacDonald Bk - off W Earltown - Earltown Rd) light grey highly siliceous very fine grained felsic volcanic ~1% very fine grained pyrite; possible silc breccia
54808	boulder	(DH-90-26) (Ferguson Bk - runs NE towards W Earltown); welded tuff, silicified with 1-2% pyrite
54809	boulder	(PH-90-36) (French River, W of Nuttby Cls. Taken beside well for Maple Sugar Camp (Aluminum Bldgs) on new road not on topo or ortho) rock is felsic volcanic (rhyolite porphyry) rusty grey to rusty yellow, pyrite = 1% fine grained disseminated highly siliceous
54810	boulder	(PH-90-35) (French River - 250 m upstream (S) from 54809) porphyry felsic volcanic (rhyolite?); siliceous, medium grey; numerous similar boulders in area; ~1% pyrite (new road is on W side of River)
54811	outcrop	(PH-90-37) (French River - 50 m downstream from Maple Sugar Camp) porphyritic rhyolite outcrop; 1-2% pyrite disseminated and on fractures; 150 m N of bridge; pale yellow to light grey
54812	boulder	(PH-90-38) (Intersection of Porter Bk with French River, 40 m upstream on Porter Bk); porphyritic rhyolite - similar to 54809; 1% pyrite disseminated; silicified
54813	boulder	(PH-90-39) (Sutherland Bk , 50 m upstream from tar paper camp, E of Maple Sugar Gove 11E/11 V1; 340 m S of BB-4320 in brook); porphyritic rhyolite - clots of pyrite (arsenopyrite?) 2%; orange

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54813	boulder	(PH-90-39) (Sutherland Bk, 50 m upstream from tar paper camp, E of Maple Sugar Grove 11E/11 V1; 340 m S of BB-4320 in brook); porphyritic rhyolite - clots of pyrite (arsenopyrite?) 2%; orange
54985	boulder	(PH-90-45) (French River 250 m downstream from Maple Sugar Camp) rhyolite - silicified, fine-grained disseminated pyrite 1%; pyrite to 2-3% on fractures; other similar rocks in area
54986	outcrop	(PH-90-46) (Warwick Mtn Au showing) (location - from hwy 246 turn onto Warwick Mtn Rd, go SE for 2.5 km, turn right onto Rd N of Byer's Bk, showing is 800 m along this Rd on the S side) quartz rhyolite porphyry - highly altered, leached, Fe stain and "iron cap", pyrite 2-3%
54987	outcrop	(PH-90-47) (Warwick Mtn Au showing) rhyolite quartz porphyry - altered very soft - Fe stain, 1-3% pyrite; green chloritic alteration - less leached than 54986
54988	subcrop	(PH-90-48) (Warwick Mtn Au showing) quartz-rhyolite-porphyry - fresh siliceous; minor K-spar; light maroon colour; possibly unaltered but siliceous host rock for 54986, 987; quartz and carbonate in vugs
54989	boulder	(PH-90-49) (Warwick Mtn Au Showing) (200 m downstream in Byer's Brook from showing) quartzite, rusty with fine-grained disseminated pyrite (arsenopyrite?)
54990	boulder	(PH-90-50) (Warwick Mtn Au showing) (50 m downstream from showing) basalt rock; 3% pyrite; chlorite alteration

<u>SAMPLE NUMBER</u>	<u>TYPE OF SAMPLE</u>	<u>DESCRIPTION</u>
54991	boulder	(PH-90-51) (Warwick Mtn, 150 m downstream from showing) siliceous, aphanitic, dark green rock; 2-3% fine-grained disseminated pyrite
54992	boulder	(PH-90-52) (10 m upstream from stream sed BB-4016 in Sutherlands Bk (Nuttby Mtn NW) rhyolite, siliceous boulder with fine disseminated pyrite 1%
54993	boulder	(PH-90-53) (Ferguson's Bk, 100 m upstream from stream sed BB-4020) rhyolite, siliceous with 2-3% pyrite, possibly minor arsenopyrite; grey and pink in colour - remnant rhyolite
54994	boulder	(PH-90-54) (Ferguson's Bk, 5 m upstream from 54993) quartz-rhyolite-porphyry - less siliceous than 54993; quartz eyes to pebble size; green (epidote?) alteration

APPENDIX II
ANALYTICAL RESULTS - "ROCK GEOCHEMISTRY"

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
54751		454	13	27	<10	55	<5	11
54752		131	12	25	<10	158	<5	13
54753		105	6	16	<10	9	5	13
54754		137	14	31	<10	7	<5	10
54755		132	15	37	<10	12	<5	10
54756		163	9	14	<10	6	5	6
54757		235	9	16	<10	5	<5	8
54758		134	<1	<5	<10	2	<5	7
54759		274	6	13	<10	68	6	15
54760		40	16	37	<10	72	<5	7
54761		95	7	15	<10	23	6	8
54762		102	7	17	<10	54	<5	6
54763		30	7	16	<10	12	8	7
54764		352	14	32	<10	<2	6	37
54765		139	5	13	<10	13	7	9
54766		72	<1	<5	<10	3	<5	11
54767		20	4	10	<10	710	178	221
54768		34	33	53	<10	33	<5	10
54769		24	2	<5	<10	127	<5	9
54770		5	<1	<5	<10	2	<5	11
54771		7	7	15	<10	4	<5	7
54772		86	7	13	<10	6	<5	9
54773		32	32	86	<10	11	<5	114
54774		19	21	47	<10	29	<5	11

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
54751		34	191	7	30	10	<1	<0.5	<1	<20	<5	<10
54752		29	112	9	61	9	3	0.8	1	<20	<5	<10
54753		197	28	29	18	7	<1	<0.5	<1	<20	<5	<10
54754		145	77	6	15	7	<1	<0.5	<1	<20	<5	<10
54755		277	29	<5	17	11	9	<0.5	<1	<20	<5	<10
54756		73	61	11	121	6	<1	<0.5	<1	<20	<5	<10
54757		140	188	43	37	7	<1	<0.5	1	<20	<5	<10
54758		11	10	<5	36	<1	24	<0.5	<1	<20	<5	<10
54759		25	177	8	12	7	<1	<0.5	<1	<20	<5	<10
54760		202	278	20	20	14	<1	<0.5	1	<20	<5	<10
54761		16	101	10	26	8	88	<0.5	<1	<20	<5	<10
54762		11	89	18	31	10	<1	<0.5	<1	<20	<5	<10
54763		14	51	21	46	10	<1	<0.5	<1	<20	<5	<10
54764		86	84	13	37	9	<1	<0.5	<1	<20	<5	<10
54765		86	25	10	5	3	<1	<0.5	<1	<20	<5	<10
54766		8	7	7	12	<1	6	<0.5	<1	<20	<5	<10
54767		17884	156	8	7	2	94	21.5	2	<20	<5	<10
54768		38	54	16	3	20	30	<0.5	<1	<20	<5	<10
54769		24	24	44	1	4	11	<0.5	<1	<20	<5	<10
54770		10	9	<5	1	1	1	<0.5	<1	<20	<5	<10
54771		8	8	<5	16	4	1	<0.5	<1	<20	<5	<10
54772		6	4	12	24	1	4	<0.5	<1	<20	<5	<10
54773		19	193	452	3	64	72	1.4	2	<20	9	<10
54774		8	24	86	2	13	2	<0.5	<1	<20	<5	<10

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
54751		2.00	3.72	0.07	1.35	0.64	0.16	0.92	102	22	14	10
54752		1.60	3.07	0.03	0.42	1.41	0.11	0.15	55	13	12	6
54753		2.06	>10.00	0.02	0.84	0.43	0.14	0.32	69	7	60	18
54754		3.38	6.25	0.05	1.40	0.29	0.11	0.92	186	44	20	20
54755		0.87	3.23	0.01	0.10	0.29	0.08	0.28	33	20	25	18
54756		4.62	3.94	0.03	1.52	1.90	0.75	0.40	209	11	23	13
54757		4.41	6.94	0.05	1.66	0.67	0.21	1.09	216	44	54	41
54758		0.39	2.66	<0.00	<0.05	0.05	0.07	<0.05	5	21	15	10
54759		2.54	5.92	0.07	2.42	0.38	0.13	0.88	200	25	21	13
54760		2.31	5.19	0.08	1.93	0.84	0.12	0.27	141	68	14	24
54761		2.34	4.38	0.06	2.18	0.63	0.15	0.32	91	8	15	3
54762		2.20	5.21	0.05	2.06	0.70	0.12	0.15	126	5	16	3
54763		2.00	4.52	0.04	1.94	0.82	0.10	0.05	89	6	14	2
54764		2.77	7.66	0.07	1.78	0.35	0.12	0.98	248	51	38	31
54765		1.34	6.56	0.01	0.63	0.09	0.10	0.20	39	14	22	11
54766		0.30	1.18	<0.00	<0.05	<0.05	0.06	<0.05	3	21	4	8
54767		0.27	>10.00	<0.00	<0.05	0.08	<0.05	0.16	6	19	23	22
54768		0.44	1.14	0.02	<0.05	<0.05	0.05	0.25	3	21	<1	3
54769		0.11	0.69	0.02	<0.05	<0.05	0.05	0.12	2	26	<1	11
54770		0.12	0.22	<0.00	<0.05	<0.05	<0.05	0.10	2	27	<1	5
54771		0.24	0.43	0.01	<0.05	0.22	0.05	0.07	6	33	<1	5
54772		0.12	0.35	<0.00	<0.05	<0.05	0.05	<0.05	<1	21	<1	4
54773		0.51	3.99	0.04	0.06	<0.05	0.05	0.13	5	23	2	3
54774		0.20	1.01	0.01	<0.05	0.06	0.07	0.13	5	24	<1	4



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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
54775		0.67	1.18	0.02	0.42	0.25	0.10	0.06	28	25	6	14
54776		1.13	1.76	0.05	0.56	0.75	0.08	0.11	16	41	5	9
54777		0.47	1.10	0.04	0.22	0.39	0.08	<0.05	8	33	3	14
54778		0.50	1.17	0.04	<0.05	0.12	0.07	0.20	3	33	<1	5
54779		0.50	1.61	0.04	0.08	<0.05	0.07	0.18	2	19	<1	3
54780		0.21	2.02	0.01	0.13	0.12	0.07	<0.05	11	36	10	11
54781		0.34	1.00	0.02	0.19	0.09	0.08	<0.05	9	43	2	14
54782		0.94	2.49	0.05	0.13	0.47	0.10	0.09	3	15	<1	3
54783		0.41	1.84	0.01	<0.05	0.13	0.10	0.21	2	20	1	5
54784		0.49	2.22	0.01	<0.05	0.14	0.10	0.16	3	14	1	2
54785		0.41	1.92	0.02	0.06	0.17	0.12	0.08	3	20	2	3
54786		0.12	0.23	0.01	<0.05	<0.05	0.08	0.11	2	26	<1	2
54787		0.16	2.22	<0.01	<0.05	0.05	0.08	0.20	1	27	2	4
54788		0.59	1.65	0.03	0.06	0.14	0.10	0.11	2	23	1	6
54789		0.66	1.87	0.04	0.05	0.19	0.10	0.11	2	22	1	6
54790		0.67	2.20	0.05	0.07	0.13	0.11	0.12	2	20	2	4
54791		0.79	2.40	0.03	0.58	0.44	0.08	<0.05	69	38	7	12
54792		1.96	3.31	0.08	1.12	1.38	0.06	<0.05	78	32	14	15



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
54775		18	33	12	13	2	<1	<0.5	<1	<20	<5	<10
54776		7	52	<5	46	4	2	<0.5	<1	<20	<5	<10
54777		7	22	6	21	5	<1	<0.5	<1	<20	<5	<10
54778		9	71	8	3	42	12	<0.5	<1	<20	<5	<10
54779		7	52	33	2	32	<1	<0.5	<1	<20	<5	<10
54780		15	27	<5	3	1	15	<0.5	<1	<20	<5	<10
54781		56	46	9	13	1	2	<0.5	<1	<20	<5	<10
54782		7	46	6	29	35	3	<0.5	<1	<20	<5	<10
54783		15	103	26	7	15	40	<0.5	<1	<20	<5	<10
54784		9	115	19	6	14	28	0.6	<1	<20	<5	<10
54785		19	64	22	7	15	5	0.7	<1	<20	<5	<10
54786		7	9	<5	2	1	<1	<0.5	<1	<20	<5	<10
54787		20	197	84	3	27	34	<0.5	1	<20	<5	<10
54788		7	57	<5	5	66	1	<0.5	<1	<20	<5	<10
54789		7	59	13	5	60	<1	<0.5	<1	<20	<5	<10
54790		11	87	29	4	52	4	<0.5	1	<20	<5	<10
54791		30	76	17	5	9	2	<0.5	<1	<20	<5	<10
54792		342	282	6	92	13	8	0.7	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
54775		58	2	6	<10	14	<5	9
54776		43	2	6	<10	4	<5	13
54777		36	11	25	<10	2	<5	10
54778		41	36	80	<10	7	<5	14
54779		50	33	78	<10	28	<5	6
54780		47	1	6	<10	21	<5	11
54781		40	2	7	<10	13	<5	14
54782		46	44	99	<10	10	<5	12
54783		78	27	59	<10	236	<5	10
54784		71	40	92	<10	50	<5	12
54785		89	32	75	<10	335	<5	18
54786		39	1	<5	<10	7	<5	20
54787		47	15	38	<10	314	<5	31
54788		57	63	132	<10	12	<5	19
54789		50	65	145	<10	22	<5	9
54790		49	50	119	<10	19	<5	17
54791		29	5	10	<10	10	<5	13
54792		26	7	14	<10	23	<5	10



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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
54793		2.54	1.20	0.03	0.36	1.51	0.35	0.13	14	14	3	5
54794A		0.34	1.17	0.02	0.06	0.17	0.12	0.07	6	25	1	6
54794B		0.39	1.55	<0.01	<0.05	0.06	0.08	0.34	1	17	3	6
54795		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
54796		0.23	0.48	0.01	<0.05	0.16	0.10	<0.05	9	36	1	8
54797		0.55	0.32	<0.01	<0.05	<0.05	0.07	0.33	1	12	<1	2
54798		0.45	1.34	<0.01	<0.05	<0.05	0.07	0.36	1	10	<1	3
54799		0.37	1.38	<0.01	<0.05	0.09	0.07	0.12	7	27	2	8
54800		1.43	2.62	0.02	0.28	0.09	0.10	0.38	21	16	7	19
54801		1.39	2.34	0.02	0.30	0.11	0.10	0.31	20	20	7	17
54802		0.25	0.39	<0.01	<0.05	<0.05	0.06	<0.05	<1	15	2	2
54803		0.13	0.16	<0.01	<0.05	<0.05	0.06	<0.05	<1	14	<1	2
54804		0.24	1.64	0.01	<0.05	<0.05	0.07	0.23	2	22	1	3
54805		0.48	2.11	<0.01	<0.05	0.10	0.07	0.35	1	15	1	4
54806		1.45	3.16	0.06	1.25	1.25	0.12	0.06	76	55	13	29
54807		0.38	1.85	0.01	<0.05	0.16	0.10	0.10	2	22	1	6



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
54793		21	42	7	108	7	4	<0.5	<1	<20	<5	<10
54794A		9	22	11	20	52	3	<0.5	<1	<20	<5	<10
54794B		6	43	18	3	17	7	<0.5	<1	<20	<5	<10
54795		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
54796		16	13	8	9	5	3	<0.5	<1	<20	<5	<10
54797		5	6	<5	4	11	4	<0.5	<1	<20	<5	<10
54798		6	21	38	5	8	13	<0.5	<1	<20	<5	<10
54799		7	16	11	9	5	4	<0.5	<1	<20	<5	<10
54800		10	39	18	7	12	3	<0.5	<1	<20	<5	<10
54801		9	28	14	7	12	1	<0.5	<1	<20	<5	<10
54802		4	25	7	61	<1	4	<0.5	<1	<20	<5	<10
54803		3	6	<5	24	2	3	<0.5	<1	<20	<5	<10
54804		10	165	12	4	9	7	<0.5	<1	<20	<5	<10
54805		16	15	11	5	32	7	0.6	<1	<20	<5	<10
54806		24	72	8	64	20	3	<0.5	<1	<20	<5	<10
54807		11	117	22	4	23	7	<0.5	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
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54793		103	4	6	<10	10	<5	10
54794A		29	29	69	<10	9	<5	16
54794B		91	15	32	<10	79	<5	10
54795		NS	NS	NS	NS	NS	NS	NS
54796		9	10	26	<10	6	<5	10

54797		69	6	8	<10	<2	<5	6
54798		93	10	20	<10	61	<5	11
54799		68	14	40	<10	2	<5	11
54800		88	27	58	<10	51	<5	7
54801		53	27	59	<10	10	<5	9

54802	>2000	3	5	<10	<2	<5	<5	4
54803		55	12	16	<10	4	<5	15
54804		65	19	37	<10	78	<5	18
54805		83	61	166	<10	37	<5	11
54806		22	30	60	<10	13	<5	7

54807		18	28	63	<10	132	<5	13
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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
54808		0.31	0.89	<0.00	<0.05	<0.05	0.07	0.26	<1	21	<1	4
54809		0.35	1.05	<0.00	<0.05	0.06	0.06	0.26	2	19	1	4
54810		0.33	1.68	0.01	<0.05	<0.05	0.15	0.06	2	13	<1	3
54811		0.77	2.58	0.03	0.10	0.14	0.10	0.19	7	17	2	5
54812		0.35	1.13	<0.00	<0.05	<0.05	0.08	0.19	1	19	2	4
54813		0.46	1.64	<0.00	<0.05	0.12	0.10	0.27	2	16	2	3



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
54808		18	64	20	3	49	4	<0.5	<1	<20	<5	<10
54809		9	19	11	4	10	2	<0.5	<1	<20	<5	<10
54810		10	34	21	3	16	4	<0.5	<1	<20	<5	<10
54811		10	58	119	6	44	3	0.6	<1	<20	<5	<10
54812		9	26	37	2	6	4	<0.5	<1	<20	<5	<10
54813		10	118	17	4	20	2	<0.5	<1	<20	<5	<10

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
54808		42	49	115	<10	43	<5	16
54809		65	29	63	<10	50	<5	11
54810		22	19	44	<10	17	<5	23
54811		61	56	126	<10	32	<5	15
54812		39	28	65	<10	16	<5	43
54813		48	48	103	<10	198	<5	11



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SAMPLE NUMBER	ELEMENT UNITS	Au Rew PPB	Au Rew PPB	Al PCT	Fe Tot PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM
54985				0.41	0.86	88	<0.05	0.08	<0.05	0.26	1	10
54986				4.07	8.35	685	4.34	0.08	<0.05	0.06	48	42
54987				6.87	>10.00	1294	7.77	0.38	<0.05	<0.05	53	69
54988				0.39	0.66	275	0.06	0.10	<0.05	0.18	10	6
54989				0.38	1.05	<50	0.06	<0.05	<0.05	0.22	3	13
54990				2.38	7.53	556	2.07	1.17	0.07	0.14	161	45
54991		219	26	1.05	2.57	151	0.20	0.09	<0.05	0.32	9	9
54992				0.36	1.09	<50	<0.05	<0.05	<0.05	0.26	2	13
54993				0.17	2.04	<50	<0.05	<0.05	<0.05	0.16	1	10
54994				0.30	2.01	<50	<0.05	0.45	0.06	0.14	1	10
54995				1.05	1.94	163	0.27	0.07	<0.05	0.18	15	17



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SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Ni PPM	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM
54985		2	2	11	85	62	4	13	4	<0.5	<1	<20
54986		24	40	45	109	14	8	16	1	<0.5	<1	<20
54987		30	65	40	210	39	16	18	1	0.6	<1	<20
54988		2	3	5	53	22	5	44	<1	<0.5	<1	24
54989		<1	2	7	39	80	4	18	43	<0.5	<1	<20
54990		44	57	45	104	49	11	17	2	0.9	<1	<20
54991		3	3	15	45	124	6	20	2	<0.5	<1	<20
54992		1	4	6	22	57	3	5	40	<0.5	<1	<20
54993		<1	2	46	39	14	2	9	6	<0.5	<1	<20
54994		1	2	5	47	9	6	14	2	<0.5	<1	<20
54995		6	18	10	20	<5	2	12	3	<0.5	1	<20



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SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Te PPM	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
54985		<5	<10	96	16	48	<10	134	<5	14
54986		<5	<10	15	19	34	<10	4	7	<5
54987		<5	<10	28	28	42	<10	<2	8	18
54988		<5	<10	16	17	57	<10	18	<5	<5
54989		7	<10	84	16	47	<10	20	<5	7
54990		<5	<10	10	25	49	<10	18	<5	15
54991		<5	<10	59	31	68	<10	34	<5	24
54992		<5	<10	47	7	26	<10	32	<5	5
54993		<5	<10	22	13	34	<10	140	<5	10
54994		<5	<10	42	18	43	<10	17	<5	<5
54995		<5	<10	26	13	32	<10	<2	<5	<5

APPENDIX III
ANALYTICAL RESULTS - "STREAM SEDIMENTS"

APPENDIX III
ANALYTICAL RESULTS - "STREAM SEDIMENTS"
PART 1
Geochemical Results - -200 Fraction

Fines



Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
884261		1.61	3.50	0.12	0.63	0.51	0.09	0.08	72	33	16	30
884262		1.83	3.58	0.20	0.63	0.54	0.08	0.11	62	30	18	32
884263		3.39	2.66	0.27	0.41	0.23	0.06	0.13	37	36	16	36
884264		1.39	2.11	0.33	0.24	0.25	0.07	0.05	35	20	15	20
884265		2.18	1.39	0.08	0.20	0.23	0.07	0.06	19	19	7	21
884266		1.64	2.24	0.20	0.20	0.35	0.07	0.07	28	19	11	25
884267		2.38	2.64	0.13	0.20	0.22	0.07	0.07	57	16	14	14
884268		1.99	2.14	0.18	0.34	0.25	0.09	0.07	32	25	25	28
884269		2.28	4.26	0.20	1.07	0.29	0.10	0.19	30	26	39	48
884270		1.11	1.41	0.23	0.19	0.60	0.10	0.06	21	24	7	23
884271		1.80	2.16	0.10	0.30	0.29	0.05	0.07	33	23	10	16
884272		1.47	3.42	0.12	0.51	0.41	0.07	0.12	69	30	14	30
884273		2.25	4.21	0.37	0.48	0.32	0.07	0.10	69	39	24	28
884274		1.25	2.24	0.17	0.31	0.49	0.07	<0.05	40	24	11	17
884275		1.44	2.20	0.18	0.27	0.35	0.06	0.07	36	17	10	18
884276		1.39	2.57	0.11	0.39	0.36	0.07	0.10	43	21	12	27
884277		1.72	2.50	0.10	0.33	0.25	0.06	0.09	42	22	10	20
884278		1.34	2.46	0.09	0.40	0.40	0.09	0.07	42	25	11	29
884279		1.43	2.83	0.09	0.49	0.39	0.09	0.09	48	26	13	24
884280		1.45	2.82	0.09	0.46	0.35	0.06	0.09	49	25	13	24
884281		1.58	2.87	0.08	0.46	0.35	0.06	0.10	43	24	14	26
884282		1.63	2.97	0.09	0.48	0.38	0.08	0.11	45	28	14	30
884283		1.49	2.45	0.11	0.40	0.35	0.07	0.07	45	22	12	19
884284		1.75	2.97	0.18	0.56	0.56	0.07	<0.05	58	29	17	24
884285		1.66	2.97	0.12	0.50	0.41	0.07	0.11	60	25	14	22
884286		2.24	3.80	0.09	0.96	0.79	0.10	0.07	78	36	19	32

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
884261		22	133	92	21	14	<1	<0.5	1	<20	<5	<10
884262		22	129	<5	22	26	1	<0.5	<1	<20	<5	<10
884263		22	356	244	13	82	6	<0.5	<1	<20	<5	<10
884264		18	204	22	11	42	20	<0.5	<1	<20	<5	<10
884265		12	132	20	13	70	4	<0.5	<1	<20	<5	<10
884266		17	257	8	21	38	2	<0.5	<1	<20	<5	<10
884267		17	275	8	11	50	4	<0.5	<1	<20	<5	<10
884268		30	348	42	14	47	5	<0.5	<1	<20	<5	<10
884269		44	174	40	19	26	2	<0.5	<1	<20	<5	<10
884270		18	154	<5	30	46	<1	0.6	3	<20	<5	<10
884271		15	216	29	16	48	11	<0.5	1	<20	<5	<10
884272		22	98	23	17	18	2	<0.5	<1	<20	<5	<10
884273		21	194	8	19	33	<1	<0.5	2	<20	<5	<10
884274		14	230	<5	30	15	2	<0.5	2	<20	<5	<10
884275		14	98	6	19	14	<1	<0.5	<1	<20	<5	<10
884276		15	82	<5	15	11	<1	<0.5	<1	<20	<5	<10
884277		16	76	19	13	14	<1	<0.5	<1	<20	<5	<10
884278		18	89	45	16	12	<1	<0.5	<1	<20	<5	<10
884279		15	93	47	17	11	<1	<0.5	<1	<20	<5	<10
884280		15	106	22	16	12	1	<0.5	<1	<20	<5	<10
884281		14	113	27	16	12	<1	<0.5	<1	<20	<5	<10
884282		16	122	12	17	13	<1	0.6	<1	<20	<5	<10
884283		14	92	20	17	13	1	0.7	<1	<20	<5	<10
884284		20	159	<5	26	18	2	1.2	<1	<20	<5	<10
884285		17	70	10	17	13	<1	0.8	<1	<20	<5	<10
884286		22	86	34	32	14	<1	0.9	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
BB4261		74	21	47	<10	30	<5	94
BB4262		107	29	67	<10	28	<5	16
BB4263		117	59	96	<10	52	<5	113
BB4264		51	49	86	<10	46	<5	66
BB4265		96	58	78	<10	20	<5	32
BB4266		151	29	74	<10	80	<5	39
BB4267		101	38	79	<10	123	<5	7
BB4268		54	35	151	<10	168	<5	32
BB4269		142	33	78	<10	86	<5	7
BB4270		205	33	94	<10	149	<5	19
BB4271		111	44	99	<10	124	<5	38
BB4272		92	29	64	<10	33	<5	48
BB4273		170	35	96	<10	43	<5	12
BB4274		192	16	31	<10	49	<5	14
BB4275		217	16	48	<10	29	<5	5
BB4276		102	19	50	<10	27	<5	13
BB4277		133	22	65	<10	24	<5	15
BB4278		102	16	42	<10	30	<5	74
BB4279		83	17	41	<10	37	<5	79
BB4280		84	12	54	<10	33	<5	8
BB4281		76	14	55	<10	30	<5	12
BB4282		80	14	58	<10	36	<5	22
BB4283		93	12	52	<10	34	<5	13
BB4284		138	9	51	<10	53	<5	18
BB4285		76	14	55	<10	17	<5	10
BB4286		62	7	38	<10	19	<5	6

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
BB4287		1.74	3.61	0.09	0.68	0.58	0.08	0.12	73	37	16	31
BB4288		1.65	3.46	0.11	0.64	0.52	0.08	0.12	68	39	16	31
BB4289		1.77	3.64	0.09	0.69	0.54	0.08	0.11	74	39	17	34
BB4290		1.79	3.57	0.10	0.67	0.46	0.07	0.11	69	35	18	29
BB4291		1.89	3.44	0.14	0.65	0.54	0.09	0.11	70	37	17	31
BB4292		1.26	2.37	0.16	0.40	0.36	0.07	0.06	44	22	12	16
BB4293		2.00	3.44	0.10	0.65	0.59	0.07	0.06	77	34	16	27
BB4294		1.72	3.07	0.15	0.52	0.52	0.07	<0.05	68	39	15	27
BB4295		1.93	3.49	0.07	0.70	0.59	0.09	0.07	75	35	16	30
BB4296		2.10	3.80	0.11	1.01	0.78	0.13	0.07	78	39	20	36
BB4297		2.04	3.47	0.08	0.75	0.52	0.09	0.12	66	33	18	30
BB4298		1.88	3.72	0.11	0.74	0.56	0.09	0.11	74	38	18	32
BB4299		1.80	3.59	0.11	0.68	0.67	0.08	0.07	74	41	17	31
BB4300		2.06	4.47	0.66	0.66	0.65	0.08	0.07	81	33	40	29
BB4301		1.94	3.39	0.10	0.47	0.45	0.07	0.07	71	31	14	24
BB4302		2.11	3.69	0.10	0.53	0.51	0.08	0.07	78	34	15	25
BB4303		1.53	2.95	0.12	0.45	0.33	0.07	0.11	52	26	13	23
BB4304		1.50	3.13	0.11	0.51	0.49	0.07	0.07	67	29	14	22
BB4305		1.78	3.25	0.15	0.51	0.65	0.08	0.07	70	32	16	23
BB4306		1.70	3.30	0.10	0.58	0.54	0.08	0.13	62	29	15	26
BB4307		1.53	3.00	0.08	0.50	0.49	0.07	0.11	57	25	13	21
BB4308		1.62	3.35	0.07	0.58	0.57	0.08	0.09	74	30	15	23
BB4309		1.69	2.72	0.06	0.51	0.45	0.07	0.09	48	25	13	21
BB4310		1.96	3.10	0.08	0.52	0.49	0.07	0.10	59	26	14	23
BB4311		2.34	2.67	0.17	0.42	0.87	0.07	0.08	59	25	13	20
BB4312		1.55	2.68	0.11	0.42	0.48	0.07	0.11	48	24	13	21
BB4313		1.97	3.62	0.46	0.51	0.56	0.07	0.06	79	28	24	21
BB4314		1.65	2.59	0.06	0.36	0.28	0.06	0.08	48	23	11	19
BB4315		2.14	3.27	0.14	0.63	0.73	0.08	0.06	69	30	17	26
BB4316		1.52	2.84	0.08	0.48	0.44	0.07	0.12	47	26	13	22
BB4317		1.83	3.06	0.09	0.55	0.53	0.07	0.10	60	27	14	23
BB4318		1.35	2.02	0.07	0.40	0.39	0.07	0.08	39	20	10	18
BB4319		1.66	2.99	0.12	0.51	0.63	0.07	0.07	67	29	14	21
BB4320		1.88	2.90	0.11	0.52	0.75	0.08	0.06	69	30	14	21
BB4323		1.89	3.51	0.12	0.65	0.60	0.08	0.06	81	39	17	28
BB4324		1.94	3.68	0.13	0.69	0.75	0.08	0.07	83	33	18	25

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
BB4287		23	137	6	26	17	7	<0.5	<1	<20	<5	<10
BB4288		27	157	22	30	18	3	<0.5	<1	<20	<5	<10
BB4289		24	181	51	26	18	1	<0.5	<1	<20	<5	<10
BB4290		25	154	12	24	18	1	<0.5	<1	<20	<5	<10
BB4291		20	218	16	27	25	2	<0.5	1	<20	<5	<10
BB4292		12	254	18	25	11	<1	<0.5	3	<20	<5	<10
BB4293		25	101	29	26	14	<1	<0.5	<1	<20	<5	<10
BB4294		16	121	10	25	13	<1	<0.5	1	<20	<5	<10
BB4295		23	92	17	25	13	<1	<0.5	<1	<20	<5	<10
BB4296		27	99	24	32	15	<1	<0.5	<1	<20	<5	<10
BB4297		22	115	12	24	17	9	0.7	1	<20	<5	<10
BB4298		21	140	12	22	19	3	0.6	1	<20	<5	<10
BB4299		22	199	13	26	42	1	0.8	2	<20	<5	<10
BB4300		22	319	19	35	152	9	1.9	4	<20	<5	<10
BB4301		21	213	17	21	23	2	1.2	1	<20	<5	<10
BB4302		22	240	21	24	24	3	<0.5	2	<20	<5	<10
BB4303		17	200	14	15	17	2	0.7	<1	<20	<5	<10
BB4304		17	212	32	22	17	2	0.7	1	<20	<5	<10
BB4305		20	274	24	29	24	3	0.9	2	<20	<5	<10
BB4306		21	249	19	22	19	9	<0.5	1	<20	<5	<10
BB4307		20	105	11	22	13	2	<0.5	<1	<20	<5	<10
BB4308		19	154	36	22	15	2	<0.5	1	<20	<5	<10
BB4309		18	103	12	23	13	1	<0.5	<1	<20	<5	<10
BB4310		16	108	<5	24	16	2	<0.5	<1	<20	<5	<10
BB4311		22	84	17	30	18	<1	<0.5	<1	<20	<5	<10
BB4312		21	89	12	18	14	<1	<0.5	<1	<20	<5	<10
BB4313		17	220	18	24	17	4	0.8	1	<20	<5	<10
BB4314		16	98	10	15	9	1	<0.5	<1	<20	<5	<10
BB4315		25	212	13	30	23	<1	0.7	<1	<20	<5	<10
BB4316		18	87	<5	19	14	6	<0.5	1	<20	<5	<10
BB4317		18	104	13	23	20	2	<0.5	<1	<20	<5	<10
BB4318		12	83	8	17	17	1	<0.5	<1	<20	<5	<10
BB4319		17	112	<5	25	15	1	<0.5	<1	<20	<5	<10
BB4320		18	101	8	30	18	<1	<0.5	<1	<20	<5	<10
BB4323		17	195	13	26	27	2	<0.5	2	<20	<5	<10
BB4324		23	169	23	27	19	<1	0.7	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
BB4287		73	22	50	<10	29	<5	13
BB4288		298	22	46	<10	32	<5	34
BB4289		81	22	44	<10	44	<5	24
BB4290		84	22	47	<10	39	<5	26
BB4291		90	23	46	<10	38	<5	51
BB4292		156	16	29	<10	36	<5	12
BB4293		75	17	40	<10	24	<5	24
BB4294		71	15	39	<10	22	<5	21
BB4295		66	17	36	<10	22	<5	41
BB4296		78	17	37	<10	19	<5	17
BB4297		93	24	55	<10	22	<5	54
BB4298		84	24	55	<10	28	<5	10
BB4299		99	33	59	<10	28	<5	13
BB4300		218	105	102	<10	62	<5	15
BB4301		74	26	65	<10	46	<5	18
BB4302		83	28	68	<10	48	<5	12
BB4303		85	26	78	<10	40	<5	11
BB4304		70	23	58	<10	41	<5	61
BB4305		88	26	65	<10	55	<5	59
BB4306		70	25	70	<10	42	<5	11
BB4307		83	21	53	<10	27	<5	12
BB4308		76	21	54	<10	37	<5	21
BB4309		84	18	47	<10	25	<5	35
BB4310		84	22	63	<10	23	<5	8
BB4311		81	19	55	<10	27	<5	8
BB4312		80	19	55	<10	22	<5	19
BB4313		118	20	69	<10	34	<5	123
BB4314		63	16	47	<10	22	<5	28
BB4315		92	22	65	<10	38	<5	9
BB4316		80	24	65	<10	25	<5	13
BB4317		74	23	64	<10	23	<5	22
BB4318		57	23	53	<10	21	<5	4
BB4319		76	19	46	<10	22	<5	143
BB4320		84	21	53	<10	23	<5	22
BB4323		81	24	47	<10	29	<5	15
BB4324		83	20	50	<10	31	<5	11



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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PPM	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
884010 (-200)		1.67	3.39	1805	0.61	0.38	<0.05	0.12	60	36	15	28
884011 (-200)		1.29	2.74	1141	0.50	0.37	<0.05	0.06	54	25	13	20
884012 (-200)		1.23	2.88	842	0.53	0.36	<0.05	<0.05	69	24	12	17
884013 (-200)		1.55	3.16	1081	0.61	0.49	<0.05	0.08	57	26	14	23
884014 (-200)		1.54	3.05	1132	0.57	0.48	<0.05	0.07	57	25	14	23
884015 (-200)		2.28	4.41	1902	0.86	0.54	<0.05	0.07	94	37	23	29
884016 (-200)		1.36	2.93	910	0.64	0.50	<0.05	0.06	60	25	14	21
884017 (-200)		1.58	3.33	936	0.85	0.56	<0.05	0.06	66	25	17	24
884018 (-200)		1.86	3.84	1221	0.86	0.70	0.05	0.06	88	38	17	27
884019 (-200)		1.80	3.84	1204	0.88	0.58	<0.05	0.10	74	37	19	30
884020 (-200)		2.11	4.02	1334	0.86	0.60	<0.05	0.12	77	35	20	30
884021 (-200)		2.08	3.80	1423	0.77	0.45	<0.05	0.10	71	35	19	30
884022 (-200)		1.88	3.99	2328	0.82	0.53	<0.05	0.08	81	32	21	27
884023 (-200)		1.61	2.95	1321	0.58	0.42	<0.05	0.09	51	33	15	27
884024 (-200)		1.48	2.69	1133	0.48	0.42	<0.05	0.08	45	25	13	21



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
BB4010 (-200)		30	311	21	18	19	5	<0.5	2	<20	<5	<10
BB4011 (-200)		24	185	26	18	15	2	<0.5	1	<20	<5	<10
BB4012 (-200)		16	157	52	20	13	2	<0.5	<1	<20	<5	<10
BB4013 (-200)		25	234	11	23	14	2	<0.5	2	<20	<5	<10
BB4014 (-200)		26	232	11	21	16	2	<0.5	1	<20	<5	<10
BB4015 (-200)		23	209	19	23	16	2	<0.5	1	<20	<5	<10
BB4016 (-200)		25	102	139	21	13	1	<0.5	1	<20	<5	<10
BB4017 (-200)		23	110	12	22	12	2	<0.5	<1	<20	<5	<10
BB4018 (-200)		21	133	18	25	16	3	<0.5	1	<20	<5	<10
BB4019 (-200)		28	177	11	26	20	2	<0.5	<1	<20	<5	<10
BB4020 (-200)		47	210	26	30	25	3	<0.5	2	<20	<5	<10
BB4021 (-200)		27	189	20	24	22	3	<0.5	1	<20	<5	<10
BB4022 (-200)		37	230	8	26	26	3	<0.5	2	<20	<5	<10
BB4023 (-200)		30	112	10	19	15	2	<0.5	1	<20	<5	<10
BB4024 (-200)		43	122	39	21	16	2	<0.5	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB	Au Rew PPB	Au Rew PPB
BB4010 (-200)		94	31	102	<10	57	<5	75		
BB4011 (-200)		70	23	54	<10	36	<5	8		
BB4012 (-200)		51	17	47	<10	34	<5	16		
BB4013 (-200)		86	23	62	<10	57	<5	30		
BB4014 (-200)		68	24	64	<10	45	<5	995	610	1948
BB4015 (-200)		93	22	65	<10	37	<5	25		
BB4016 (-200)		63	17	44	<10	20	<5	260		
BB4017 (-200)		67	18	45	<10	21	<5	1750	395	379
BB4018 (-200)		78	21	50	<10	26	<5	11		
BB4019 (-200)		82	23	53	<10	40	<5	23		
BB4020 (-200)		95	26	59	<10	56	<5	20		
BB4021 (-200)		87	24	60	<10	44	<5	172		
BB4022 (-200)		94	25	54	<10	53	<5	205		
BB4023 (-200)		111	22	59	<10	38	<5	1060	918	15
BB4024 (-200)		104	22	58	<10	45	<5	343		

APPENDIX III
ANALYTICAL RESULTS - "STREAM SEDIMENTS"
PART 2
Geochemical Results - HMC



REPORT: 090-43066.0 (COMPLETE)

REFERENCE INFO:

CLIENT: SEABRIGHT EXPLORATION LTD.
 PROJECT: 11-321

SUBMITTED BY: P. WEBSTER
 DATE PRINTED: 5-DEC-90

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Na	Sodium	15	0.05 PCT		Neutron Activation
2	Sc	Scandium	15	0.5 PPM		Neutron Activation
3	Cr	Chromium	15	50 PPM		Neutron Activation
4	Fe	Iron	15	0.5 PCT		Neutron Activation
5	Co	Cobalt	15	10 PPM		Neutron Activation
6	Ni	Nickel	15	20 PPM		Neutron Activation
7	Zn	Zinc	15	200 PPM		Neutron Activation
8	As	Arsenic	15	1 PPM		Neutron Activation
9	Se	Selenium	15	10 PPM		Neutron Activation
10	Br	Bromine	15	1 PPM		Neutron Activation
11	Rb	Rubidium	15	10 PPM		Neutron Activation
12	Zr	Zirconium	15	500 PPM		Neutron Activation
13	Mo	Molybdenum	15	2 PPM		Neutron Activation
14	Ag	Silver	15	5 PPM		Neutron Activation
15	Cd	Cadmium	15	10 PPM		Neutron Activation
16	Sn	Tin	15	200 PPM		Neutron Activation
17	Sb	Antimony	15	0.2 PPM		Neutron Activation
18	Te	Tellurium	15	20 PPM		Neutron Activation
19	Cs	Cesium	15	1 PPM		Neutron Activation
20	Ba	Barium	15	100 PPM		Neutron Activation
21	La	Lanthanum	15	5 PPM		Neutron Activation
22	Ce	Cerium	15	10 PPM		Neutron Activation
23	Sm	Samarium	15	0.2 PPM		Neutron Activation
24	Eu	Europium	15	2 PPM		Neutron Activation
25	Tb	Terbium	15	1 PPM		Neutron Activation
26	Yb	Ytterbium	15	5 PPM		Neutron Activation
27	Lu	Lutetium	15	0.5 PPM		Neutron Activation
28	Hf	Hafnium	15	2 PPM		Neutron Activation
29	Ta	Tantalum	15	1 PPM		Neutron Activation
30	W	Tungsten	15	2 PPM		Neutron Activation
31	Ir	Iridium	15	100 PPB		Neutron Activation
32	Au	Gold	15	5 PPB		Neutron Activation
33	Th	Thorium	15	0.5 PPM		Neutron Activation
34	U	Uranium	15	0.5 PPM		Neutron Activation
35	Wt	Test Weight	15	0.01 g		Neutron Activation

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REFERENCE INFO:

CLIENT: SEABRIGHT EXPLORATION LTD.
PROJECT: 11-321

SUBMITTED BY: P. WEBSTER
DATE PRINTED: 5-DEC-90

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
HEAVY MINERAL CONC.	15	AS RECEIVED	15	As Received, No SP	15

REPORT COPIES TO: DR. D.W. POLLOCK
MR. PETER WEBSTER

INVOICE TO: DR. D.W. POLLOCK



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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
BB4010		1.10	12.0	73	6.6	16	<20	220	20	<10	3	92	<500
BB4011		1.40	14.0	60	4.9	19	<20	260	19	<10	3	77	<500
BB4012		1.50	15.0	63	5.1	20	<20	340	27	<10	3	87	<500
BB4013		1.10	12.0	60	6.0	18	<20	210	9	<10	3	61	<500
BB4014		1.20	15.0	110	7.2	23	<20	280	14	<10	3	67	<500
BB4015		1.60	17.0	73	6.5	28	43	290	7	<10	3	67	<500
BB4016		1.40	17.0	72	9.5	25	26	<200	17	<10	2	56	<500
BB4017		1.50	17.0	87	6.4	24	22	230	5	<10	3	69	<500
BB4018		1.70	24.0	120	8.9	31	27	270	7	<10	2	43	550
BB4019		1.20	16.0	120	6.4	20	31	210	7	<10	3	56	<500
BB4020		1.10	14.0	88	5.8	22	<20	280	32	<10	2	64	<500
BB4021		1.00	12.0	<50	4.8	19	33	<200	7	<10	3	75	<500
BB4022		1.00	13.0	89	5.3	23	44	300	8	<10	5	82	<500
BB4023		0.74	10.0	59	11.0	15	<20	<200	14	<10	4	52	<500
BB4024		0.77	11.0	83	6.8	14	<20	<200	35	<10	4	51	<500



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SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
BB4010		5	<5	<10	<200	1.8	<20	3	380	32	71	9.5	<2
BB4011		5	<5	<10	<200	0.9	<20	4	420	27	46	6.9	<2
BB4012		5	<5	<10	<200	1.1	<20	5	450	26	44	6.9	<2
BB4013		5	<5	<10	<200	1.2	<20	3	400	33	70	8.7	<2
BB4014		4	<5	<10	<200	0.8	<20	4	330	43	96	12.0	<2
BB4015		6	<5	<10	<200	0.5	<20	5	310	23	39	6.3	<2
BB4016		6	<5	<10	<200	1.5	<20	4	420	24	42	7.1	<2
BB4017		5	<5	<10	<200	0.7	<20	4	390	30	63	7.9	<2
BB4018		5	<5	<10	<200	0.7	<20	4	430	26	68	8.3	<2
BB4019		4	<5	<10	<200	0.7	<20	5	370	27	51	7.4	<2
BB4020		4	<5	<10	<200	0.6	<20	4	360	28	62	7.6	<2
BB4021		4	<5	<10	<200	0.6	<20	7	410	22	46	6.4	<2
BB4022		3	<5	<10	<200	0.6	<20	10	440	22	39	6.7	<2
BB4023		5	<5	<10	<200	2.5	<20	4	350	32	60	8.3	<2
BB4024		6	<5	<10	<200	3.0	<20	4	320	46	120	13.0	2



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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	Wt g
BB4010		2	<5	<0.5	6	3	<2	<100	2230	10.0	3.0	27.69
BB4011		1	<5	0.6	6	2	<2	<100	470	6.2	2.0	26.62
BB4012		1	<5	0.8	5	2	<2	<100	17	6.1	2.0	18.71
BB4013		2	<5	0.5	4	2	<2	<100	<5	6.4	2.2	21.68
BB4014		2	<5	0.7	8	3	<2	<100	<5	8.4	2.5	19.18
BB4015		1	<5	0.6	5	2	<2	<100	<5	5.0	1.8	15.95
BB4016		2	<5	0.6	5	1	<2	<100	6	5.3	2.6	21.04
BB4017		1	<5	0.6	4	2	<2	<100	594	6.6	2.0	20.92
BB4018		2	<5	0.7	5	2	<2	<100	<5	4.9	1.9	22.76
BB4019		<1	<5	0.6	5	1	<2	<100	<5	5.3	1.7	26.83
BB4020		<1	<5	<0.5	5	2	<2	<100	200	5.9	1.6	20.02
BB4021		1	<5	<0.5	5	1	<2	<100	460	5.4	1.5	19.18
BB4022		1	<5	0.6	5	2	<2	<100	52	5.6	1.7	23.22
BB4023		1	<5	0.5	4	2	2	<100	<5	6.1	4.3	24.22
BB4024		1	<5	<0.5	7	2	<2	<100	10	7.9	2.6	20.60

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Geochemical Lab Report

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STANDARD NAME	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	Wt g
BCC Standard GS89-3		<1	<5	0.6	3	<1	<2	<100	7	3.2	1.1	17.34
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.5	2.5	0.64	3.0	0.5	1.0	50.0	6.6	3.20	1.10	17.340
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	6	-	-	-	-	-



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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
BB4261		0.58	14.0	130	21.0	17	<20	<200	132	<10	1	26	<500
BB4262		0.76	16.0	170	18.0	22	<20	<200	26	<10	2	44	<500
BB4263		1.20	13.0	56	4.5	16	<20	<200	29	<10	2	87	<500
BB4264		1.20	12.0	<50	4.0	14	<20	<200	14	<10	4	100	<500
BB4265		1.40	12.0	57	3.4	13	26	<200	16	<10	4	110	570
BB4266		0.82	13.0	75	6.8	16	32	<200	30	<10	4	96	<500
BB4267		0.86	23.0	<50	9.5	21	<20	370	15	<10	8	110	<500
BB4268		1.30	15.0	<50	4.3	19	<20	230	11	<10	4	86	<500
BB4269		0.53	16.0	90	4.8	18	36	<200	28	<10	1	180	<500
BB4270		0.52	9.3	<50	3.4	<10	<20	<200	11	<10	10	180	790
BB4271		0.68	7.9	<50	3.1	<10	<20	<200	30	<10	3	180	<500
BB4272		0.75	13.0	92	10.0	16	39	<200	15	<10	3	110	<500
BB4273		0.80	11.0	81	5.0	13	29	<200	10	<10	4	88	620
BB4274		1.10	14.0	78	7.0	16	<20	210	8	<10	3	71	520
BB4275		0.69	10.0	59	5.8	12	<20	<200	16	<10	3	59	<500
BB4276		0.72	9.1	59	3.5	12	<20	<200	5	<10	1	66	<500
BB4277		0.79	9.2	52	3.4	11	<20	<200	6	<10	2	65	<500
BB4278		0.72	10.0	55	8.1	13	<20	<200	18	<10	5	51	510
BB4279		0.78	10.0	<50	3.9	12	27	<200	14	<10	3	59	<500
BB4280		0.68	8.4	<50	3.5	12	<20	<200	20	<10	3	57	<500
BB4281		0.54	7.0	52	3.1	11	<20	<200	6	<10	2	54	<500
BB4282		0.56	7.0	<50	3.1	<10	<20	<200	5	<10	4	64	<500
BB4283		0.71	8.4	54	3.6	14	<20	<200	10	<10	4	67	<500
BB4284		0.76	11.0	63	5.6	21	31	200	26	<10	6	85	<500
BB4285		1.10	16.0	73	6.3	21	<20	<200	16	<10	2	67	<500
BB4286		1.40	20.0	110	6.7	26	49	<200	11	<10	5	69	<500
BB4287		1.10	16.0	85	6.5	20	30	<200	30	<10	3	74	<500
BB4288		1.10	15.0	73	6.3	20	25	<200	35	<10	4	63	<500
BB4289		1.10	15.0	62	5.7	20	<20	<200	61	<10	3	67	<500
BB4290		1.00	15.0	66	6.5	20	23	<200	12	<10	3	57	<500
BB4291		1.10	15.0	59	5.8	22	35	<200	34	<10	5	78	<500
BB4292		1.10	13.0	64	3.9	14	<20	<200	15	<10	3	72	<500
BB4293		1.30	19.0	74	6.4	26	45	<200	42	<10	4	50	<500
BB4294		1.00	14.0	85	5.5	22	25	<200	9	<10	4	50	<500
BB4295		1.10	19.0	75	6.7	24	43	<200	6	<10	4	48	<500
BB4296		1.10	17.0	63	6.7	26	54	<200	17	<10	4	40	<500
BB4297		1.20	13.0	67	4.4	17	20	<200	4	<10	1	70	<500
BB4298		0.78	18.0	110	33.0	22	44	<200	49	<10	2	33	530
BB4299		1.40	21.0	100	8.3	27	55	<200	4	<10	5	53	500
BB4300		1.60	21.0	69	6.8	23	25	<200	28	<10	3	54	<500

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SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
BB4261		<2	<5	<10	<200	5.7	<20	3	190	64	150	16.0	<2
BB4262		<2	<5	<10	<200	4.5	<20	3	300	53	100	13.0	3
BB4263		<2	<5	<10	<200	0.9	<20	4	350	24	56	6.9	<2
BB4264		<2	<5	<10	<200	1.6	<20	5	560	22	46	6.6	<2
BB4265		<2	<5	<10	<200	1.0	<20	7	530	27	57	6.3	<2
BB4266		<2	<5	<10	<200	1.4	<20	6	380	31	78	7.3	<2
BB4267		<2	<5	<10	<200	1.1	<20	10	350	16	34	4.7	<2
BB4268		<2	<5	<10	<200	0.8	<20	5	440	28	67	8.2	<2
BB4269		<2	<5	<10	<200	2.6	<20	15	520	35	78	7.8	<2
BB4270		<2	<5	<10	<200	1.1	<20	8	630	39	110	10.0	<2
BB4271		<2	<5	<10	<200	0.9	<20	9	570	33	65	8.6	<2
BB4272		<2	<5	<10	<200	2.6	<20	6	440	31	69	7.8	<2
BB4273		<2	<5	<10	<200	1.4	<20	6	490	35	83	10.0	<2
BB4274		<2	<5	<10	<200	1.3	<20	5	470	27	58	6.8	<2
BB4275		<2	<5	<10	<200	1.0	<20	4	380	45	110	12.0	<2
BB4276		<2	<5	<10	<200	0.6	<20	3	340	31	84	7.6	<2
BB4277		<2	<5	<10	<200	0.7	<20	3	360	47	120	10.0	<2
BB4278		<2	<5	<10	<200	1.6	<20	3	340	27	63	6.5	<2
BB4279		<2	<5	<10	<200	0.7	<20	4	310	22	65	5.6	<2
BB4280		<2	<5	<10	<200	0.6	<20	4	280	31	82	7.1	<2
BB4281		<2	<5	<10	<200	0.6	<20	3	260	36	95	8.8	<2
BB4282		<2	<5	<10	<200	0.6	<20	4	270	33	83	8.4	<2
BB4283		<2	<5	<10	<200	0.7	<20	4	360	19	46	5.3	<2
BB4284		<2	<5	<10	<200	1.0	<20	5	530	21	43	5.8	<2
BB4285		<2	<5	<10	<200	0.7	<20	5	420	26	62	7.1	<2
BB4286		<2	<5	<10	<200	0.5	<20	5	440	23	52	6.2	<2
BB4287		<2	<5	<10	<200	0.8	<20	5	390	32	77	8.6	<2
BB4288		<2	<5	<10	<200	0.9	<20	4	760	31	76	8.6	<2
BB4289		<2	<5	<10	<200	0.7	<20	5	420	23	50	6.4	<2
BB4290		<2	<5	<10	<200	0.8	<20	4	330	25	65	7.1	<2
BB4291		<2	<5	<10	<200	0.6	<20	9	410	22	44	6.0	<2
BB4292		<2	<5	<10	<200	0.6	<20	5	410	24	66	5.9	<2
BB4293		<2	<5	<10	<200	0.4	<20	4	410	17	38	5.6	<2
BB4294		<2	<5	<10	<200	0.4	<20	4	330	17	44	5.0	<2
BB4295		<2	<5	<10	<200	0.4	<20	4	420	21	50	7.1	<2
BB4296		<2	<5	<10	<200	0.5	<20	4	350	19	43	6.4	<2
BB4297		<2	<5	<10	<200	0.5	<20	3	420	28	69	7.2	<2
BB4298		3	<5	<10	<200	7.3	<20	4	280	54	120	14.0	3
BB4299		<2	<5	<10	<200	0.5	<20	3	370	24	60	7.1	<2
BB4300		<2	<5	<10	<200	0.7	<20	3	410	25	57	7.2	<2

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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	Wt g
BB4261		2	<5	0.6	4	2	5	<100	96	10.0	6.8	9.35
BB4262		2	<5	0.6	6	3	13	<100	22	11.0	5.7	20.55
BB4263		1	<5	0.7	7	2	<2	<100	10	6.8	2.4	17.71
BB4264		1	<5	0.5	5	1	<2	<100	6	6.4	2.3	19.07
BB4265		1	<5	0.6	6	1	<2	<100	<5	7.5	2.3	18.41
BB4266		<1	<5	0.7	6	2	3	<100	<5	8.6	3.2	14.50
BB4267		<1	<5	0.6	3	<1	<2	<100	<5	5.5	3.2	17.56
BB4268		1	<5	0.6	6	2	<2	<100	6	6.2	2.5	20.41
BB4269		1	<5	0.7	5	2	<2	<100	11	13.0	3.1	19.59
BB4270		2	7	1.1	10	3	<2	<100	<5	11.0	4.0	21.18
BB4271		2	5	0.9	8	3	<2	<100	25	11.0	3.7	18.68
BB4272		2	<5	<0.5	6	2	2	<100	<5	11.0	4.8	20.66
BB4273		1	<5	<0.5	6	2	<2	<100	<5	9.2	3.0	26.80
BB4274		1	<5	<0.5	5	2	3	<100	<5	7.1	2.8	24.08
BB4275		<1	<5	<0.5	7	3	<2	<100	<5	7.7	2.5	24.74
BB4276		<1	<5	<0.5	4	2	<2	<100	<5	5.5	1.7	20.86
BB4277		<1	<5	<0.5	5	1	<2	<100	8	7.3	1.9	20.25
BB4278		1	<5	<0.5	4	2	<2	<100	<5	5.7	2.8	25.83
BB4279		<1	<5	<0.5	4	2	<2	<100	<5	5.8	1.6	22.54
BB4280		<1	<5	<0.5	6	1	<2	<100	<5	5.9	1.7	23.57
BB4281		<1	<5	<0.5	5	2	<2	<100	<5	6.3	1.6	19.74
BB4282		<1	<5	<0.5	5	2	<2	<100	<5	6.0	1.7	23.31
BB4283		<1	<5	<0.5	4	1	<2	<100	<5	4.9	1.6	23.61
BB4284		<1	<5	<0.5	4	2	<2	<100	11	4.9	1.4	20.32
BB4285		1	<5	0.6	5	2	2	<100	<5	6.2	1.7	27.54
BB4286		1	<5	0.5	4	2	<2	<100	<5	4.8	1.5	20.73
BB4287		1	<5	0.5	5	2	<2	<100	5	6.7	2.2	22.58
BB4288		1	<5	0.5	5	2	<2	<100	<5	6.5	2.0	28.75
BB4289		<1	<5	0.6	5	2	<2	<100	<5	5.5	1.7	23.03
BB4290		1	<5	<0.5	5	2	<2	<100	<5	5.3	1.8	23.48
BB4291		<1	<5	0.6	4	2	<2	<100	9	5.5	1.7	20.70
BB4292		<1	<5	<0.5	5	2	<2	<100	<5	6.3	1.8	20.62
BB4293		1	<5	<0.5	4	1	<2	<100	<5	3.7	1.2	23.02
BB4294		<1	<5	<0.5	4	1	<2	<100	<5	3.3	1.3	23.28
BB4295		1	<5	<0.5	5	2	<2	<100	<5	3.7	1.5	19.49
BB4296		1	<5	<0.5	5	2	<2	<100	<5	3.8	1.3	27.16
BB4297		1	<5	<0.5	4	1	<2	<100	31	5.8	1.8	24.39
BB4298		2	<5	0.7	5	2	7	<100	6	10.0	10.0	28.42
BB4299		1	<5	0.7	5	2	<2	<100	<5	4.2	1.4	24.61
BB4300		2	<5	0.6	6	1	<2	<100	<5	5.3	1.5	29.45



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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
BB4301		1.30	14.0	<50	4.7	18	29	<200	60	<10	4	78	<500
BB4302		1.20	13.0	69	4.4	18	41	<200	52	<10	4	76	<500
BB4303		1.20	10.0	60	4.1	12	27	<200	18	<10	3	81	<500
BB4304		1.20	16.0	63	7.8	16	<20	<200	25	<10	3	66	<500
BB4305		1.10	18.0	120	10.0	20	37	200	24	<10	3	68	<500
BB4306		1.00	14.0	85	8.8	19	32	<200	13	<10	3	62	<500
BB4307		1.10	12.0	58	4.9	18	<20	<200	7	<10	3	65	<500
BB4308		1.40	16.0	67	6.3	23	23	<200	14	<10	2	61	<500
BB4309		1.30	17.0	65	6.2	20	22	<200	32	<10	2	77	<500
BB4310		1.30	12.0	<50	4.0	17	<20	<200	133	<10	3	74	<500
BB4311		1.40	17.0	53	6.5	21	<20	<200	164	<10	6	67	<500
BB4312		1.20	14.0	74	6.9	19	<20	<200	51	<10	4	83	<500
BB4313		1.50	17.0	82	6.6	26	27	<200	34	<10	4	71	<500
BB4314		1.00	10.0	<50	3.8	12	<20	<200	6	<10	3	69	640
BB4315		1.60	22.0	95	8.8	33	52	280	5	<10	6	53	<500
BB4316		1.10	11.0	68	4.7	12	22	<200	20	<10	2	78	<500
BB4317		1.40	16.0	78	7.6	21	38	<200	61	<10	5	64	<500
BB4318		1.30	11.0	57	5.6	14	27	<200	7	<10	4	99	<500
BB4319		1.60	20.0	90	6.8	26	48	<200	9	<10	5	78	<500
BB4320		1.50	18.0	76	7.6	24	26	<200	5	<10	3	78	500
BB4323		1.50	18.0	82	7.8	24	24	<200	10	<10	5	56	670
BB4324		1.70	25.0	94	9.2	35	43	310	5	<10	6	75	<500



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SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
884301		<2	<5	<10	<200	1.0	<20	4	380	24	58	6.4	<2
884302		<2	<5	<10	<200	0.9	<20	4	340	24	52	6.3	<2
884303		<2	<5	<10	<200	0.9	<20	3	360	25	71	6.7	<2
884304		<2	<5	<10	<200	20.0	<20	4	330	27	68	6.8	<2
884305		<2	<5	<10	<200	2.5	<20	4	320	35	76	9.0	<2
884306		<2	<5	<10	<200	1.6	<20	4	300	35	100	10.0	<2
884307		<2	<5	<10	<200	0.6	<20	4	370	21	53	6.5	<2
884308		<2	<5	<10	<200	0.6	<20	4	410	23	45	6.4	<2
884309		<2	<5	<10	<200	0.8	<20	3	400	23	57	6.8	<2
884310		<2	<5	<10	<200	0.7	<20	4	380	25	57	6.0	<2
884311		<2	<5	<10	<200	0.7	<20	5	370	23	57	6.5	<2
884312		<2	<5	<10	<200	1.3	<20	4	400	32	110	8.4	<2
884313		<2	<5	<10	<200	0.5	<20	5	340	24	61	6.7	<2
884314		<2	<5	<10	<200	3.1	<20	5	340	25	63	5.9	<2
884315		<2	<5	<10	<200	0.5	<20	5	350	24	62	7.2	<2
884316		<2	<5	<10	<200	0.8	<20	3	360	32	73	7.7	<2
884317		<2	<5	<10	<200	1.3	<20	4	380	35	79	8.8	<2
884318		<2	<5	<10	<200	1.2	<20	5	430	29	69	8.0	<2
884319		<2	<5	<10	<200	0.7	<20	5	400	27	73	7.9	<2
884320		<2	<5	<10	<200	0.8	<20	5	350	38	99	10.0	<2
884323		<2	<5	<10	<200	0.9	<20	4	400	28	61	7.0	<2
884324		<2	<5	<10	<200	0.4	<20	5	410	23	46	7.3	<2



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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	Wt g
884301		1	<5	0.6	6	2	<2	<100	<5	6.0	1.8	21.60
884302		1	<5	0.6	5	2	<2	<100	<5	5.9	1.8	23.97
884303		1	<5	0.6	6	2	<2	<100	330	6.4	2.0	29.82
884304		1	<5	0.6	5	2	4	<100	17	6.8	2.3	28.44
884305		1	<5	0.7	7	2	2	<100	979	7.6	2.9	24.54
884306		1	<5	0.6	6	3	3	<100	2510	7.5	3.1	28.94
884307		1	<5	<0.5	4	2	<2	<100	<5	5.7	1.6	27.72
884308		1	<5	0.5	5	1	<2	<100	17	4.9	1.8	31.24
884309		1	<5	0.5	5	2	<2	<100	<5	5.2	1.7	27.23
884310		<1	<5	0.5	5	2	<2	<100	100	6.1	1.8	22.09
884311		1	<5	0.6	5	2	<2	<100	<5	5.4	1.5	37.59
884312		1	<5	0.6	5	2	2	<100	<5	7.0	2.8	26.70
884313		<1	<5	0.5	6	2	<2	<100	<5	5.6	1.7	30.16
884314		<1	<5	0.6	4	2	<2	<100	<5	6.6	2.2	23.01
884315		1	<5	0.7	6	2	<2	<100	<5	5.0	1.7	23.32
884316		1	<5	0.5	5	2	<2	<100	<5	7.0	2.1	30.78
884317		1	<5	0.7	6	2	2	<100	1700	7.0	2.6	19.70
884318		1	<5	0.6	7	2	<2	<100	110	8.3	3.1	36.60
884319		2	<5	0.7	6	2	<2	<100	<5	5.7	1.6	33.81
884320		2	<5	0.8	8	3	<2	<100	<5	7.6	2.7	31.83
884323		1	<5	0.6	5	2	<2	<100	812	5.5	1.9	23.42
884324		1	<5	0.8	6	2	<2	<100	26	4.8	1.6	33.23

APPENDIX IV
ANALYTICAL RESULTS - "SOIL GEOCHEMISTRY"



Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
AB26513		2.63	8.04	<0.05	0.11	0.08	0.07	0.06	53	29	5	7
AB26514		3.51	3.14	<0.05	0.32	0.21	0.08	0.06	32	22	7	12
AB26515		2.07	4.40	<0.05	0.08	0.07	0.08	<0.05	41	17	4	4
AB26516		3.58	3.59	0.09	0.29	0.09	0.08	0.07	52	31	10	16
AB26526		3.53	3.71	<0.05	0.22	0.07	0.07	0.06	39	28	7	13
AB26527		2.57	3.76	<0.05	0.25	0.07	0.08	0.08	34	25	7	14
AB26528		2.97	3.91	<0.05	0.14	0.07	0.08	0.06	44	25	6	9
AB26529		2.81	4.94	<0.05	0.16	0.06	0.07	0.06	39	25	5	9
AB26530		1.36	3.15	<0.05	0.14	0.07	0.07	0.06	38	17	4	7
AB26531		4.11	3.21	<0.05	0.21	0.06	0.08	0.06	30	25	5	12
AB26532		2.91	4.21	<0.05	0.54	0.07	0.08	0.15	39	30	11	24
AB26533		2.75	3.43	<0.05	0.25	0.07	0.08	0.09	33	20	6	12
AB26534		3.41	4.29	<0.05	0.26	0.14	0.08	0.06	40	20	8	13
AB26535		2.39	3.03	<0.05	0.20	0.06	0.08	0.06	37	23	6	12
AB26536		3.20	3.69	0.06	0.29	0.08	0.08	0.10	47	31	10	14
AB26537		2.98	4.11	<0.05	0.14	0.06	0.08	0.07	48	25	7	8
AB26538		2.52	4.04	<0.05	0.35	0.07	0.08	0.10	45	29	9	17
AB26539		2.30	3.84	<0.05	0.22	0.07	0.08	0.11	50	26	6	12
AB26540		2.33	3.51	<0.05	0.10	0.08	0.07	<0.05	44	19	4	5
AB26541		3.02	5.00	<0.05	0.29	0.10	0.08	0.12	51	28	9	14
AB26542		3.22	4.84	<0.05	0.34	0.10	0.08	0.13	52	30	10	19
AB26543		1.21	3.92	<0.05	0.07	0.06	0.08	0.08	60	18	3	5
AB26544		2.20	4.79	<0.05	0.06	0.08	0.08	<0.05	40	13	3	4
AB26545		3.32	3.81	<0.05	0.40	0.14	0.08	0.09	40	24	8	17
AB26546		3.15	5.23	0.08	0.12	0.08	0.08	0.06	47	17	5	6
AB26547		3.58	3.57	<0.05	0.33	0.09	0.08	0.10	32	23	8	18
AB26548		4.08	4.51	<0.05	0.16	0.09	0.08	<0.05	29	17	5	8
AB26549		3.77	3.05	<0.05	0.19	0.08	0.07	0.06	25	16	6	10
AB26550		2.63	3.25	<0.05	0.09	0.10	0.08	<0.05	26	12	3	4
AB26551		3.50	4.48	<0.05	0.18	0.09	0.08	0.08	41	22	6	10
AB26552		1.76	5.55	<0.05	0.05	0.07	0.07	<0.05	31	8	3	3
AB26553		3.71	3.34	<0.05	0.22	0.09	0.08	0.06	28	14	6	11
AB26554		3.49	5.50	0.06	0.18	0.11	0.08	0.05	73	29	8	11
AB26555		3.73	4.49	<0.05	0.30	0.10	0.08	0.07	67	32	10	17
AB26556		3.02	4.24	<0.05	0.28	0.07	0.08	0.09	62	31	9	14
AB26557		4.16	5.37	<0.05	0.39	0.08	0.09	0.11	59	39	10	19
AB26558		4.38	6.54	0.09	0.22	0.09	0.08	<0.05	123	45	8	10
AB26559		2.68	3.71	<0.05	0.28	0.07	0.08	0.07	41	27	7	15
AB26560		6.54	5.92	0.07	0.32	0.12	0.07	<0.05	92	96	11	26
AB26561		4.09	6.39	<0.05	0.23	0.10	0.07	<0.05	112	41	10	13

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
AB26513		10	73	24	6	7	<1	<0.5	1	<20	<5	<10
AB26514		11	98	11	19	13	<1	<0.5	<1	<20	<5	<10
AB26515		5	36	6	6	7	<1	<0.5	<1	<20	<5	<10
AB26516		16	90	7	8	8	<1	<0.5	<1	<20	<5	<10
AB26526		12	86	11	6	8	<1	<0.5	<1	<20	<5	<10
AB26527		11	81	12	6	9	<1	<0.5	<1	<20	<5	<10
AB26528		11	57	16	6	15	<1	<0.5	<1	<20	<5	<10
AB26529		9	51	14	5	8	<1	<0.5	<1	<20	<5	<10
AB26530		7	38	12	6	4	<1	<0.5	<1	<20	<5	<10
AB26531		10	87	11	5	18	<1	<0.5	<1	<20	<5	<10
AB26532		16	104	16	9	18	2	<0.5	<1	<20	<5	<10
AB26533		12	74	17	6	21	<1	<0.5	<1	<20	<5	<10
AB26534		11	100	12	13	14	<1	<0.5	<1	<20	<5	<10
AB26535		14	59	5	6	5	<1	<0.5	<1	<20	<5	<10
AB26536		13	82	9	9	10	<1	<0.5	<1	<20	<5	<10
AB26537		10	50	8	5	13	<1	<0.5	<1	<20	<5	<10
AB26538		14	83	<5	8	9	<1	<0.5	<1	<20	<5	<10
AB26539		10	54	11	8	7	<1	<0.5	<1	<20	<5	<10
AB26540		7	53	10	7	8	<1	<0.5	<1	<20	<5	<10
AB26541		17	155	8	9	15	3	<0.5	<1	<20	<5	<10
AB26542		16	175	16	9	18	1	<0.5	<1	<20	<5	<10
AB26543		6	24	<5	6	6	<1	<0.5	<1	<20	<5	<10
AB26544		5	37	9	7	6	<1	<0.5	<1	<20	<5	<10
AB26545		13	114	18	12	8	<1	<0.5	<1	<20	<5	<10
AB26546		9	51	15	7	11	<1	<0.5	1	<20	<5	<10
AB26547		12	88	17	7	9	<1	<0.5	<1	<20	<5	<10
AB26548		9	71	10	8	14	<1	<0.5	<1	<20	<5	<10
AB26549		7	84	16	6	11	<1	<0.5	<1	<20	<5	<10
AB26550		6	56	12	8	10	<1	<0.5	<1	<20	<5	<10
AB26551		12	154	14	7	12	4	<0.5	<1	<20	<5	<10
AB26552		5	33	6	5	7	1	<0.5	<1	<20	<5	<10
AB26553		8	73	13	7	11	<1	<0.5	<1	<20	<5	<10
AB26554		11	59	10	8	7	<1	<0.5	<1	<20	<5	<10
AB26555		12	91	12	9	8	<1	<0.5	<1	<20	<5	<10
AB26556		13	74	16	7	8	<1	<0.5	<1	<20	<5	<10
AB26557		17	102	20	8	12	<1	<0.5	1	<20	<5	<10
AB26558		16	59	17	7	30	<1	<0.5	<1	<20	<5	<10
AB26559		13	70	9	7	7	<1	<0.5	<1	<20	<5	<10
AB26560		23	69	18	7	10	<1	<0.5	<1	<20	<5	<10
AB26561		19	57	<5	7	17	<1	<0.5	1	<20	<5	<10

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
AB26513		39	24	45	<10	26	<5	<1
AB26514		25	29	75	<10	24	<5	<1
AB26515		28	20	40	<10	12	<5	<1
AB26516		42	20	48	<10	12	<5	<1
AB26526		22	25	54	<10	17	<5	<1
AB26527		30	21	63	<10	21	<5	<1
AB26528		29	24	46	<10	14	<5	<1
AB26529		22	19	33	<10	14	<5	<1
AB26530		22	16	34	<10	13	<5	<1
AB26531		24	28	71	<10	15	<5	<1
AB26532		43	31	58	<10	19	<5	<1
AB26533		27	36	80	<10	15	<5	<1
AB26534		27	30	62	<10	32	<5	<1
AB26535		27	16	32	<10	13	<5	<1
AB26536		34	24	49	<10	18	<5	<1
AB26537		24	23	41	<10	10	<5	<1
AB26538		27	21	46	<10	15	<5	<1
AB26539		30	21	42	<10	12	6	<1
AB26540		24	20	42	<10	25	<5	<1
AB26541		56	26	57	<10	58	<5	<1
AB26542		60	27	61	<10	62	<5	<1
AB26543		21	20	42	<10	10	<5	<1
AB26544		26	18	37	<10	18	<5	<1
AB26545		38	22	54	<10	20	<5	<1
AB26546		28	24	55	<10	9	<5	<1
AB26547		37	20	82	<10	15	<5	<1
AB26548		27	27	74	<10	10	<5	<1
AB26549		27	21	58	<10	8	<5	<1
AB26550		21	21	53	<10	11	<5	<1
AB26551		34	24	46	<10	34	<5	<1
AB26552		27	17	34	<10	20	<5	<1
AB26553		26	24	61	<10	10	<5	<1
AB26554		26	21	42	<10	6	<5	<1
AB26555		36	21	50	<10	9	<5	<1
AB26556		32	21	44	<10	18	<5	<1
AB26557		40	25	48	<10	15	<5	<1
AB26558		24	34	48	<10	11	<5	<1
AB26559		22	21	40	<10	16	<5	<1
AB26560		20	17	20	<10	11	<5	<1
AB26561		30	24	32	<10	11	<5	<1



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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
AB26562		4.30	6.06	<0.05	0.29	0.11	0.08	<0.05	113	43	11	17
AB26563		2.70	4.22	0.08	0.74	0.13	0.08	0.05	63	42	13	31
AB26564		3.43	5.21	<0.05	0.10	0.08	0.08	<0.05	81	28	5	6
AB26565		3.55	3.93	<0.05	0.18	0.07	0.07	0.06	59	28	6	10
AB26566		3.54	3.09	<0.05	0.25	0.07	0.08	0.05	35	24	7	15
AB26567		4.57	5.16	<0.05	0.31	0.10	0.07	<0.05	79	40	8	17
AB26568		3.68	8.35	0.10	0.28	0.16	0.08	<0.05	263	79	13	15
AB26569		3.63	3.46	0.11	0.28	0.08	0.08	0.12	61	28	13	15
AB26570		2.31	3.37	<0.05	0.44	0.08	0.08	0.12	45	28	9	21
AB26571		2.81	6.27	<0.05	0.21	0.07	0.07	0.07	58	33	6	11
AB26572		2.00	6.77	<0.05	0.14	0.07	0.07	0.06	68	27	6	9
AB26573		4.11	5.53	<0.05	0.14	0.08	0.07	<0.05	64	32	7	11
AB26574		3.35	4.63	<0.05	0.30	0.08	0.08	0.06	63	33	9	17
AB26575		3.91	4.45	0.05	0.22	0.08	0.07	<0.05	58	32	7	13
AB26576		5.34	5.49	<0.05	0.17	0.08	0.07	<0.05	63	34	7	11
AB26577		4.44	7.21	0.10	0.25	0.10	0.08	<0.05	142	48	13	16
AB26578		4.14	6.78	<0.05	0.23	0.10	0.07	<0.05	105	35	9	12
AB26579		4.88	3.15	0.06	0.27	0.08	0.08	0.06	38	21	10	17
AB26580		3.68	5.35	<0.05	0.29	0.08	0.08	0.07	65	34	10	16
AB26581		4.36	5.67	0.17	0.08	0.06	0.07	<0.05	23	10	4	5
AB26582		4.40	6.20	0.13	0.09	0.07	0.08	<0.05	26	11	4	4
AB26583		3.80	7.82	0.06	0.27	0.23	0.08	<0.05	187	75	14	19
AB26584		3.89	3.24	<0.05	0.21	0.08	0.07	<0.05	31	17	7	12
AB26585		4.39	4.05	<0.05	0.33	0.09	0.08	<0.05	53	29	10	20
AB26586		4.19	5.58	<0.05	0.16	0.10	0.06	<0.05	115	47	7	13
AB26587		6.70	5.41	<0.05	0.08	0.07	0.08	<0.05	54	34	5	7
AB26588		3.75	5.71	<0.05	0.19	0.14	0.08	<0.05	98	37	7	12
AB26589		2.40	2.60	<0.05	0.30	0.08	0.08	0.07	38	25	7	15
AB26590		4.30	4.72	<0.05	0.25	0.07	0.07	<0.05	59	37	8	15
AB26591		3.39	4.71	<0.05	0.22	0.08	0.08	0.06	87	39	9	14
AB26592		3.66	3.96	<0.05	0.23	0.08	0.08	0.06	51	33	9	14
AB26593		2.59	3.21	<0.05	0.50	0.09	0.08	0.10	46	29	12	25
AB26594		3.50	3.90	<0.05	0.75	0.12	0.08	0.08	48	28	16	30
AB26595		3.97	4.08	<0.05	0.53	0.12	0.07	0.08	58	38	13	28
AB26596		5.64	7.07	0.05	0.27	0.10	0.08	0.06	87	57	12	18
AB26597		2.48	3.91	<0.05	0.38	0.08	0.08	0.09	36	26	8	18
AB26598		3.00	3.82	<0.05	0.29	0.07	0.08	0.08	37	30	7	17
AB26599		3.02	3.59	<0.05	0.35	0.07	0.08	0.06	42	31	8	19
AB26600		2.36	3.09	<0.05	0.18	0.05	0.07	0.07	33	21	5	10
AB26601		2.10	2.88	<0.05	0.21	0.06	0.07	0.07	34	22	5	12

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
AB26562		21	64	9	7	18	<1	<0.5	<1	<20	<5	<10
AB26563		21	81	7	11	12	<1	<0.5	<1	<20	<5	<10
AB26564		13	55	14	6	8	<1	<0.5	<1	<20	<5	<10
AB26565		10	76	22	7	7	<1	<0.5	<1	<20	<5	<10
AB26566		17	102	24	6	11	<1	<0.5	<1	<20	<5	<10
AB26567		14	65	11	8	7	<1	<0.5	<1	<20	<5	<10
AB26568		20	76	10	7	18	<1	<0.5	<1	<20	<5	<10
AB26569		18	67	9	9	23	<1	<0.5	<1	<20	<5	<10
AB26570		16	80	<5	9	9	<1	<0.5	<1	<20	<5	<10
AB26571		13	57	13	7	6	<1	<0.5	<1	<20	<5	<10
AB26572		9	47	16	6	5	<1	<0.5	<1	<20	<5	<10
AB26573		11	57	<5	6	6	<1	<0.5	<1	<20	<5	<10
AB26574		15	72	10	7	8	<1	<0.5	<1	<20	<5	<10
AB26575		14	67	10	7	7	<1	<0.5	<1	<20	<5	<10
AB26576		13	76	8	5	8	<1	<0.5	1	<20	<5	<10
AB26577		20	81	<5	7	11	2	<0.5	<1	<20	<5	<10
AB26578		15	67	5	8	9	<1	<0.5	<1	<20	<5	<10
AB26579		12	78	<5	6	16	<1	<0.5	<1	<20	<5	<10
AB26580		15	71	21	7	7	<1	<0.5	<1	<20	<5	<10
AB26581		9	55	10	5	13	<1	<0.5	<1	<20	<5	<10
AB26582		8	57	<5	5	13	<1	<0.5	<1	<20	<5	<10
AB26583		19	63	16	14	8	<1	<0.5	<1	25	<5	<10
AB26584		10	82	18	7	13	<1	<0.5	<1	<20	<5	<10
AB26585		18	84	15	7	10	<1	<0.5	<1	<20	<5	<10
AB26586		10	51	6	9	10	<1	<0.5	<1	<20	<5	<10
AB26587		9	39	28	5	8	<1	<0.5	<1	<20	<5	<10
AB26588		12	76	7	12	6	<1	<0.5	<1	<20	<5	<10
AB26589		15	54	8	7	8	<1	<0.5	<1	<20	<5	<10
AB26590		16	93	19	6	8	<1	<0.5	<1	<20	<5	<10
AB26591		19	81	8	6	10	<1	<0.5	<1	<20	<5	<10
AB26592		12	81	14	7	9	<1	<0.5	<1	<20	<5	<10
AB26593		20	87	7	8	8	<1	<0.5	<1	<20	<5	<10
AB26594		26	106	13	11	8	<1	<0.5	<1	<20	<5	<10
AB26595		22	94	8	9	11	<1	<0.5	<1	<20	<5	<10
AB26596		18	88	13	5	13	<1	<0.5	1	<20	<5	<10
AB26597		32	165	27	7	17	<1	<0.5	<1	<20	<5	<10
AB26598		13	93	16	7	8	<1	<0.5	<1	<20	<5	<10
AB26599		16	87	<5	6	8	<1	<0.5	<1	<20	<5	<10
AB26600		10	64	8	5	11	<1	<0.5	<1	<20	<5	<10
AB26601		9	58	<5	5	7	<1	<0.5	<1	<20	<5	<10

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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
AB26562		31	25	38	<10	12	<5	<1
AB26563		36	21	44	<10	15	<5	<1
AB26564		25	18	30	<10	19	<5	2
AB26565		25	20	38	<10	13	<5	1
AB26566		29	21	46	<10	20	<5	<1
AB26567		25	18	27	<10	9	<5	1
AB26568		43	28	39	<10	19	<5	<1
AB26569		37	31	54	<10	22	<5	<1
AB26570		31	25	49	<10	11	<5	<1
AB26571		22	20	31	<10	12	<5	<1
AB26572		23	19	31	<10	18	5	<1
AB26573		31	19	32	<10	12	<5	<1
AB26574		26	21	41	<10	8	<5	<1
AB26575		22	18	36	<10	6	<5	1
AB26576		29	21	39	<10	5	<5	<1
AB26577		39	22	33	<10	3	<5	1
AB26578		29	21	35	<10	5	<5	<1
AB26579		34	26	55	<10	12	<5	1
AB26580		32	21	41	<10	16	<5	<1
AB26581		87	25	62	<10	12	<5	2
AB26582		58	27	66	<10	12	<5	1
AB26583		41	19	27	<10	10	6	1
AB26584		29	23	61	<10	10	<5	1
AB26585		26	17	36	<10	9	<5	<1
AB26586		22	21	35	<10	9	<5	1
AB26587		26	17	27	<10	<2	<5	1
AB26588		38	21	36	<10	9	<5	1
AB26589		32	22	52	<10	12	<5	1
AB26590		27	20	43	<10	16	<5	1
AB26591		33	22	54	<10	13	<5	1
AB26592		36	20	39	<10	13	<5	1
AB26593		32	21	51	<10	18	<5	<1
AB26594		37	20	40	<10	13	<5	<1
AB26595		40	20	42	<10	16	<5	<1
AB26596		27	23	41	<10	14	<5	<1
AB26597		24	28	116	<10	105	<5	5
AB26598		28	20	62	<10	26	<5	1
AB26599		28	19	53	<10	19	<5	1
AB26600		23	21	48	<10	28	<5	3
AB26601		21	19	45	<10	9	<5	1



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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
AB26602		1.98	3.07	<0.05	0.19	0.06	0.08	0.08	41	21	5	9
AB26603		1.73	3.15	<0.05	0.23	0.05	0.07	0.08	33	19	6	12
AB26604		3.65	4.40	<0.05	0.22	0.06	0.08	0.07	47	28	7	12
AB26605		3.67	3.67	<0.05	0.21	0.06	0.07	0.07	37	28	6	12
AB26606		3.64	4.41	<0.05	0.30	0.08	0.08	0.08	57	30	9	16
AB26607		4.08	3.73	<0.05	0.41	0.07	0.08	0.12	42	32	11	23
AB26608		2.40	4.12	<0.05	0.27	0.07	0.08	0.10	40	27	8	14
AB26609		2.86	3.53	<0.05	0.20	0.07	0.08	0.06	51	27	7	12
AB26610		1.93	5.25	<0.05	0.07	0.08	0.08	<0.05	82	28	4	7
AB26611		1.73	2.95	<0.05	0.10	0.06	0.07	<0.05	38	18	3	6
AB26612		3.19	4.55	0.05	0.48	0.41	0.08	0.10	80	22	8	7
AB26613		3.36	4.24	<0.05	0.14	0.12	0.08	0.05	52	18	6	8
AB26614		3.25	3.73	<0.05	0.23	0.13	0.08	0.06	40	17	6	9
AB26615		2.72	4.10	<0.05	0.28	0.18	0.09	0.07	29	18	7	13
AB26616		2.32	3.54	<0.05	0.14	0.11	0.08	<0.05	29	14	4	6
AB26617		2.94	4.85	<0.05	0.21	0.09	0.08	0.07	43	27	7	12
AB26618		4.13	4.93	<0.05	0.16	0.07	0.08	<0.05	62	30	7	10
AB26619		3.36	3.12	<0.05	0.26	0.09	0.08	0.05	31	20	7	13
AB26620		1.37	2.18	0.14	0.11	0.09	0.07	0.08	36	17	7	6
AB26621		2.30	3.65	<0.05	0.11	0.08	0.07	<0.05	32	13	4	5
AB26622		2.26	3.39	<0.05	0.19	0.11	0.08	<0.05	31	15	6	9
AB26623		2.45	4.56	<0.05	0.16	0.10	0.08	0.06	43	17	5	7
AB26624		1.04	2.59	<0.05	<0.05	0.09	0.09	<0.05	21	8	2	3
AB26625		2.81	4.54	<0.05	0.34	0.10	0.08	0.10	34	25	9	16
AB26626		3.39	5.52	<0.05	0.08	0.09	0.07	<0.05	31	12	4	5
AB26627		2.39	4.46	<0.05	0.10	0.07	0.07	<0.05	52	16	4	6
AB26628		4.69	5.49	0.06	0.16	0.08	0.08	<0.05	66	18	9	11
AB26629		2.45	5.45	0.23	0.21	0.09	0.08	<0.05	94	30	12	11
AB26630		2.80	3.98	0.06	0.16	0.09	0.06	<0.05	54	21	7	9
AB26631		2.24	4.55	0.05	0.11	0.08	0.06	<0.05	45	15	4	6
AB26632		4.65	4.86	0.05	0.20	0.09	0.07	0.06	45	19	7	11
AB26633		2.90	4.45	<0.05	0.14	0.08	0.07	0.05	26	15	5	6
AB26634		1.81	3.95	<0.05	0.07	0.06	0.07	0.06	52	17	3	5
AB26635		2.27	4.54	<0.05	0.14	0.05	0.07	0.05	49	22	6	9
AB26636		2.73	3.28	<0.05	0.21	0.06	0.07	0.06	45	24	6	12
AB26637		2.11	4.08	<0.05	0.10	0.06	0.07	<0.05	53	23	4	7
AB26638		3.21	6.51	<0.05	0.18	0.08	0.07	<0.05	123	41	9	11
AB26639		3.56	7.47	0.08	0.49	0.20	0.08	<0.05	157	58	17	22
AB26640		3.37	4.66	<0.05	0.15	0.06	0.07	<0.05	53	29	5	10
AB26641		3.61	3.74	<0.05	<0.05	0.07	0.07	<0.05	49	17	3	3

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
AB26602		9	51	10	6	8	<1	<0.5	<1	<20	<5	<10
AB26603		10	48	<5	6	7	<1	<0.5	<1	<20	<5	<10
AB26604		11	87	17	6	9	3	<0.5	<1	<20	<5	<10
AB26605		13	65	15	6	9	<1	<0.5	<1	<20	<5	<10
AB26606		30	91	15	10	8	<1	<0.5	<1	<20	<5	<10
AB26607		18	147	10	8	11	<1	<0.5	<1	<20	<5	<10
AB26608		13	66	<5	7	10	<1	<0.5	<1	<20	<5	<10
AB26609		11	74	<5	7	6	<1	<0.5	<1	<20	<5	<10
AB26610		8	28	6	7	7	<1	<0.5	<1	<20	<5	<10
AB26611		5	31	5	5	4	<1	<0.5	<1	<20	<5	<10
AB26612		13	72	<5	34	14	<1	<0.5	<1	<20	<5	<10
AB26613		9	54	14	11	7	2	<0.5	<1	<20	<5	<10
AB26614		9	75	<5	11	10	<1	<0.5	<1	<20	<5	<10
AB26615		14	176	7	16	13	<1	<0.5	1	<20	<5	<10
AB26616		7	50	<5	10	9	<1	<0.5	<1	<20	<5	<10
AB26617		9	57	12	8	8	<1	<0.5	<1	<20	<5	<10
AB26618		12	69	17	6	9	<1	<0.5	<1	<20	<5	<10
AB26619		12	83	12	8	11	<1	<0.5	<1	<20	<5	<10
AB26620		10	75	6	8	31	<1	<0.5	<1	<20	<5	<10
AB26621		6	64	13	7	7	<1	<0.5	<1	<20	<5	<10
AB26622		9	79	6	10	9	<1	<0.5	<1	<20	<5	<10
AB26623		9	155	12	9	13	2	<0.5	<1	<20	<5	<10
AB26624		4	22	<5	8	5	1	<0.5	<1	<20	<5	<10
AB26625		12	110	9	8	12	<1	<0.5	<1	<20	<5	<10
AB26626		6	44	11	7	13	5	<0.5	<1	<20	<5	<10
AB26627		7	53	13	6	9	<1	<0.5	<1	<20	<5	<10
AB26628		11	61	17	6	9	<1	<0.5	<1	<20	<5	<10
AB26629		11	55	<5	7	7	<1	<0.5	<1	<20	<5	<10
AB26630		10	69	11	8	9	<1	<0.5	<1	<20	<5	<10
AB26631		7	52	10	6	6	<1	<0.5	<1	<20	<5	<10
AB26632		10	96	6	7	25	<1	<0.5	<1	<20	<5	<10
AB26633		9	71	5	6	8	<1	<0.5	<1	<20	<5	<10
AB26634		7	31	6	5	6	<1	<0.5	<1	<20	<5	<10
AB26635		11	44	20	4	6	<1	<0.5	<1	<20	<5	<10
AB26636		9	67	10	5	6	<1	<0.5	<1	<20	<5	<10
AB26637		8	36	9	5	5	<1	<0.5	<1	<20	<5	<10
AB26638		10	42	9	6	6	<1	<0.5	<1	<20	<5	<10
AB26639		19	91	14	12	15	<1	<0.5	<1	<20	<5	<10
AB26640		11	56	<5	5	9	4	<0.5	1	<20	<5	<10
AB26641		10	35	44	4	10	2	<0.5	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
AB26602		23	21	48	<10	10	<5	1
AB26603		18	20	54	<10	16	<5	<1
AB26604		31	21	46	<10	17	<5	1
AB26605		22	22	46	<10	22	<5	2
AB26606		31	22	50	<10	13	<5	2
AB26607		39	23	85	<10	28	<5	1
AB26608		28	22	45	<10	16	<5	<1
AB26609		29	21	43	<10	10	<5	<1
AB26610		28	18	32	<10	11	<5	<1
AB26611		15	20	38	<10	6	<5	<1
AB26612		48	24	43	<10	11	<5	1
AB26613		37	19	35	<10	22	<5	<1
AB26614		31	26	58	<10	16	<5	2
AB26615		36	30	99	<10	44	<5	1
AB26616		21	21	48	<10	16	<5	2
AB26617		35	22	52	<10	21	<5	2
AB26618		33	21	42	<10	12	<5	2
AB26619		30	24	60	<10	17	<5	3
AB26620		66	39	90	<10	45	<5	2
AB26621		22	20	43	<10	13	<5	<1
AB26622		26	24	58	<10	15	<5	<1
AB26623		34	25	47	<10	28	<5	<1
AB26624		28	16	32	<10	8	<5	<1
AB26625		36	27	69	<10	24	<5	<1
AB26626		21	28	54	<10	13	<5	<1
AB26627		29	19	37	<10	10	<5	<1
AB26628		26	20	35	<10	4	<5	2
AB26629		35	19	34	<10	8	<5	<1
AB26630		28	21	51	<10	20	<5	<1
AB26631		22	19	40	<10	15	<5	1
AB26632		35	34	65	<10	14	<5	<1
AB26633		30	21	47	<10	10	<5	<1
AB26634		23	18	35	<10	8	<5	<1
AB26635		19	17	36	<10	15	<5	<1
AB26636		25	18	40	<10	9	<5	<1
AB26637		20	17	35	<10	8	<5	<1
AB26638		19	18	28	<10	8	<5	<1
AB26639		52	22	41	<10	19	<5	<1
AB26640		18	13	34	<10	14	<5	<1
AB26641		22	16	36	<10	24	<5	<1



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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
AB26642		4.88	3.79	<0.05	0.08	0.07	0.07	<0.05	45	20	4	5
AB26643		4.72	5.45	0.12	0.20	0.07	0.07	<0.05	105	40	9	12
AB26644		2.31	3.84	<0.05	0.11	0.07	0.08	<0.05	46	19	6	7
AB26645		4.67	7.84	<0.05	0.16	0.12	0.07	<0.05	164	59	7	12
AB26646		2.25	3.10	0.06	0.40	0.08	0.08	0.07	54	30	10	19
AB26647		1.47	4.53	<0.05	0.11	0.08	0.08	<0.05	84	27	5	7
AB26648		4.05	4.60	<0.05	0.23	0.07	0.08	<0.05	48	27	7	15
AB26649		3.34	4.26	<0.05	0.18	0.06	0.07	<0.05	52	28	6	11
AB26650		2.83	5.14	<0.05	0.14	0.08	0.07	0.07	47	22	5	8
AB26651		2.61	3.72	<0.05	0.23	0.07	0.07	0.06	46	26	9	12
AB26652		2.10	3.15	<0.05	0.12	0.07	0.06	<0.05	48	21	4	6
AB26653		3.31	5.74	<0.05	0.15	0.07	0.06	<0.05	85	30	7	8
AB26654		3.88	3.26	<0.05	0.45	0.11	0.07	<0.05	51	27	11	23
AB26655		1.63	3.67	0.05	0.16	0.09	0.07	<0.05	79	27	5	8
AB26656		3.30	3.27	<0.05	0.36	0.08	0.07	0.06	44	28	9	21
AB26657		1.56	4.08	0.06	0.27	0.09	0.08	0.06	58	25	10	14
AB26658		3.32	3.26	0.05	0.25	0.06	0.08	0.06	38	25	8	15
AB26659		3.25	4.72	<0.05	0.12	0.07	0.07	<0.05	57	27	6	7
AB26660		3.08	3.26	<0.05	0.15	0.07	0.07	<0.05	30	18	6	8
AB26661		4.02	4.96	<0.05	0.24	0.08	0.07	<0.05	61	24	9	14
AB26662		4.58	5.72	<0.05	0.20	0.08	0.07	<0.05	66	25	8	11
AB26663		3.19	3.69	<0.05	0.35	0.09	0.07	0.06	43	22	11	18
AB26664		3.69	5.83	0.25	0.30	0.15	0.07	<0.05	135	52	17	15
AB26665		5.85	4.93	0.06	0.22	0.12	0.08	<0.05	80	33	9	16
AB26666		3.35	5.32	0.09	0.25	0.12	0.08	<0.05	121	45	9	15
AB26667		4.91	3.78	<0.05	0.32	0.08	0.08	0.06	50	31	10	21
AB26668		3.25	5.94	0.06	0.22	0.10	0.08	0.05	84	32	8	10
AB26669		3.48	4.52	<0.05	0.22	0.10	0.10	0.07	65	29	9	15
AB26670		3.90	3.96	<0.05	0.46	0.09	0.08	<0.05	53	27	14	22
AB26671		2.19	3.34	<0.05	0.13	0.07	0.09	0.05	49	23	5	8
AB26672		2.31	4.00	<0.05	0.16	0.08	0.07	<0.05	28	15	5	8
AB26673		3.37	3.14	<0.05	0.24	0.07	0.07	<0.05	35	22	7	14
AB26674		2.44	3.57	<0.05	0.28	0.06	0.07	0.08	45	23	8	14
AB26675		3.65	3.61	<0.05	0.21	0.08	0.08	<0.05	45	26	7	13
AB26676		4.44	5.56	<0.05	0.31	0.10	0.07	0.06	70	35	11	21
AB26677		7.00	5.32	<0.05	0.27	0.18	0.08	<0.05	75	44	10	20
AB26678		3.71	3.34	<0.05	0.34	0.09	0.08	0.06	41	31	9	21
AB26679		2.72	3.61	<0.05	0.08	0.06	0.07	<0.05	39	16	2	3
AB26680		2.51	3.72	<0.05	0.17	0.07	0.07	0.07	40	25	6	10
AB26681		3.43	3.65	<0.05	0.21	0.06	0.07	0.06	39	26	6	13



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
AB26642		11	48	31	4	16	1	<0.5	<1	<20	<5	<10
AB26643		14	91	<5	5	15	<1	<0.5	<1	<20	<5	<10
AB26644		10	48	<5	5	7	<1	<0.5	1	<20	<5	<10
AB26645		17	48	<5	6	11	<1	<0.5	<1	<20	<5	<10
AB26646		14	61	<5	8	9	<1	<0.5	<1	<20	<5	<10
AB26647		12	40	<5	6	5	<1	<0.5	<1	<20	<5	<10
AB26648		17	72	6	5	8	<1	<0.5	<1	<20	<5	<10
AB26649		13	60	<5	6	11	3	<0.5	<1	<20	<5	<10
AB26650		13	52	<5	8	11	<1	<0.5	<1	<20	<5	<10
AB26651		11	55	<5	6	11	<1	<0.5	<1	<20	<5	<10
AB26652		8	48	<5	7	5	<1	<0.5	<1	<20	<5	<10
AB26653		9	53	<5	5	6	<1	<0.5	<1	<20	<5	<10
AB26654		20	72	<5	7	12	<1	<0.5	<1	<20	<5	<10
AB26655		10	44	<5	7	5	<1	<0.5	<1	<20	<5	<10
AB26656		19	99	<5	6	8	<1	<0.5	1	<20	<5	<10
AB26657		15	54	<5	6	5	<1	<0.5	<1	<20	<5	<10
AB26658		12	90	<5	5	7	<1	<0.5	<1	<20	<5	<10
AB26659		11	55	<5	5	7	3	<0.5	<1	<20	<5	<10
AB26660		7	57	6	6	7	1	<0.5	<1	<20	<5	<10
AB26661		9	58	<5	6	10	<1	<0.5	<1	<20	<5	<10
AB26662		9	59	<5	6	12	<1	<0.5	<1	<20	<5	<10
AB26663		18	78	<5	7	10	<1	<0.5	<1	<20	<5	<10
AB26664		16	72	<5	10	9	<1	<0.5	<1	<20	<5	<10
AB26665		13	78	<5	7	8	<1	<0.5	<1	<20	<5	<10
AB26666		11	74	<5	9	9	2	<0.5	<1	<20	<5	<10
AB26667		12	107	<5	7	8	<1	<0.5	<1	<20	<5	<10
AB26668		10	70	<5	9	11	<1	<0.5	<1	<20	<5	<10
AB26669		13	117	<5	8	8	<1	<0.5	<1	<20	<5	<10
AB26670		20	83	6	7	8	<1	<0.5	<1	<20	<5	<10
AB26671		10	86	<5	6	6	<1	<0.5	<1	<20	<5	<10
AB26672		9	62	6	7	10	<1	<0.5	<1	<20	<5	<10
AB26673		17	133	10	6	11	<1	<0.5	<1	<20	<5	<10
AB26674		13	68	<5	6	12	<1	<0.5	<1	<20	<5	<10
AB26675		15	119	<5	6	10	<1	<0.5	<1	<20	<5	<10
AB26676		17	119	6	8	8	1	<0.5	<1	<20	<5	<10
AB26677		18	66	<5	9	9	<1	<0.5	1	<20	<5	<10
AB26678		17	106	<5	7	8	<1	<0.5	<1	<20	<5	<10
AB26679		6	33	<5	5	11	<1	<0.5	<1	<20	<5	<10
AB26680		10	69	<5	7	5	<1	<0.5	<1	<20	<5	<10
AB26681		9	70	9	5	9	<1	<0.5	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
AB26642		22	23	63	<10	21	<5	<1
AB26643		24	16	50	<10	19	<5	<1
AB26644		29	14	36	<10	18	<5	<1
AB26645		27	9	28	<10	8	5	<1
AB26646		35	14	35	<10	10	<5	<1
AB26647		37	10	29	<10	22	<5	<1
AB26648		27	15	39	<10	14	<5	<1
AB26649		26	16	43	<10	14	<5	<1
AB26650		24	16	43	<10	15	<5	<1
AB26651		25	16	42	<10	8	<5	<1
AB26652		28	13	33	<10	10	<5	<1
AB26653		24	10	30	<10	10	<5	<1
AB26654		24	16	41	<10	10	<5	<1
AB26655		23	11	32	<10	9	<5	<1
AB26656		31	14	40	<10	12	<5	<1
AB26657		30	10	33	<10	27	<5	<1
AB26658		29	14	36	<10	10	<5	<1
AB26659		26	10	36	<10	9	<5	<1
AB26660		26	13	40	<10	13	<5	<1
AB26661		28	12	38	<10	4	<5	<1
AB26662		28	14	41	<10	5	<5	<1
AB26663		33	14	40	<10	10	<5	<1
AB26664		42	8	29	<10	<2	<5	<1
AB26665		40	9	31	<10	<2	<5	<1
AB26666		42	12	30	<10	9	<5	<1
AB26667		35	15	43	<10	15	<5	<1
AB26668		39	14	44	<10	10	<5	<1
AB26669		40	13	37	<10	14	<5	<1
AB26670		29	11	34	<10	17	<5	<1
AB26671		21	13	33	<10	14	<5	<1
AB26672		23	16	57	<10	25	<5	<1
AB26673		24	16	56	<10	38	<5	<1
AB26674		21	16	42	<10	21	<5	<1
AB26675		23	14	39	<10	23	<5	<1
AB26676		41	11	35	<10	13	<5	<1
AB26677		30	4	14	<10	4	<5	<1
AB26678		31	11	32	<10	10	<5	<1
AB26679		20	17	45	<10	21	<5	<1
AB26680		22	10	36	<10	16	<5	<1
AB26681		22	14	38	<10	13	<5	<1

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SAMPLE NUMBER	ELEMENT UNITS	Al PCT	Fe Tot PCT	Mn PCT	Mg PCT	Ca PCT	Na PCT	K PCT	V PPM	Cr PPM	Co PPM	Ni PPM
AB26682		3.59	3.63	<0.05	0.19	0.06	0.07	0.06	38	27	6	13
AB26683		2.34	2.95	<0.05	0.35	0.06	0.07	0.08	39	25	9	19
AB26684		2.25	3.91	<0.05	0.34	0.08	0.07	0.08	50	28	9	15
AB26685		2.28	4.66	<0.05	0.30	0.11	0.08	0.09	71	30	9	15
AB26686		1.85	3.21	<0.05	0.24	0.07	0.08	0.11	51	24	7	11
AB26687		2.53	3.45	0.06	0.46	0.09	0.07	0.08	59	30	12	22
AB26688		2.73	3.94	<0.05	0.45	0.09	0.08	0.08	57	33	11	21
AB26689		3.28	3.69	<0.05	0.59	0.10	0.07	0.08	62	35	16	31
AB26690		3.05	4.86	<0.05	0.17	0.09	0.07	<0.05	51	24	5	7
AB26691		3.07	3.93	<0.05	0.32	0.13	0.07	<0.05	52	24	9	15
AB26692		2.27	5.35	<0.05	0.13	0.07	0.08	0.06	65	24	6	7
AB26693		3.07	4.54	<0.05	0.21	0.08	0.07	<0.05	57	27	7	12
AB26694		2.84	2.76	<0.05	0.28	0.07	0.09	0.07	34	23	8	17
AB26695		2.20	2.62	<0.05	0.36	0.07	0.08	0.09	32	25	9	21
AB26696		1.50	2.58	<0.05	0.11	0.06	0.08	<0.05	36	17	4	4
AB26697		3.35	3.81	<0.05	0.15	0.06	0.07	0.05	48	24	5	10
AB26698		3.84	3.14	<0.05	0.30	0.07	0.07	0.06	36	25	8	15
AB26699		3.25	3.94	<0.05	0.23	0.07	0.07	<0.05	37	24	7	12
AB26700		1.90	4.09	<0.05	0.14	0.05	0.07	0.05	57	20	5	8
AB26701		3.52	3.17	<0.05	0.33	0.07	0.07	<0.05	39	26	9	20
AB26702		4.17	3.58	<0.05	0.33	0.08	0.08	0.07	44	32	10	25
AB26703		4.11	4.44	<0.05	0.26	0.10	0.08	0.06	73	42	8	21
AB26704		2.15	4.23	<0.05	0.21	0.07	0.07	0.07	58	27	8	21
AB26705		2.99	5.44	<0.05	0.16	0.09	0.08	0.06	47	28	5	10
AB26706		2.36	3.09	<0.05	0.34	0.08	0.09	0.11	37	29	9	29
AB26707		2.94	2.80	<0.05	0.35	0.06	0.06	0.07	33	26	9	22
AB26708		2.89	2.85	<0.05	0.23	0.06	0.07	0.05	34	23	7	16
AB26709		2.39	4.20	<0.05	0.27	0.06	0.07	0.09	44	28	7	14
AB26710		2.65	3.40	<0.05	0.20	<0.05	0.07	<0.05	30	26	6	13
AB26711		3.11	2.66	<0.05	0.19	0.05	0.07	0.06	27	18	5	11
AB26712		3.10	3.85	<0.05	0.26	0.06	0.07	0.06	41	30	7	15
AB26713		4.34	3.22	<0.05	0.25	0.07	0.08	0.06	28	23	7	16
AB26714		3.07	2.39	<0.05	0.21	0.05	0.07	0.06	24	17	5	12
AB26715		1.84	2.59	<0.05	0.16	0.07	0.08	0.08	36	19	4	14
AB265721		1.49	2.66	<0.05	0.12	0.06	0.08	0.07	38	18	4	11
AB265722		1.42	2.54	<0.05	0.10	0.05	0.07	0.06	35	17	4	14
AB265723		1.99	3.96	<0.05	0.12	0.06	0.07	0.05	50	22	4	7
AB265724		1.91	2.99	<0.05	0.15	0.06	0.08	0.06	42	21	5	14
AB265725		2.35	2.86	<0.05	0.23	0.06	0.07	0.07	33	24	6	13
AB265726		3.45	3.61	<0.05	0.31	0.06	0.08	0.09	40	29	10	17



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	As PPM	Sr PPM	Y PPM	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM
A826682		9	70	5	5	8	<1	<0.5	<1	<20	<5	<10
A826683		16	71	<5	6	10	<1	<0.5	<1	<20	<5	<10
A826684		14	90	7	7	18	<1	<0.5	<1	<20	<5	<10
A826685		14	83	<5	10	20	3	<0.5	<1	<20	<5	<10
A826686		10	51	<5	8	6	1	<0.5	<1	<20	<5	<10
A826687		17	76	<5	8	10	<1	<0.5	<1	<20	<5	<10
A826688		18	77	<5	9	8	<1	<0.5	<1	<20	<5	<10
A826689		25	91	<5	9	10	<1	<0.5	<1	<20	<5	<10
A826690		9	68	<5	8	8	<1	<0.5	<1	<20	<5	<10
A826691		18	127	<5	12	12	<1	<0.5	<1	<20	<5	<10
A826692		11	71	11	7	8	<1	<0.5	<1	<20	<5	<10
A826693		11	113	<5	7	8	<1	<0.5	<1	<20	<5	<10
A826694		16	96	<5	6	8	<1	<0.5	<1	<20	<5	<10
A826695		17	83	<5	7	8	2	<0.5	<1	<20	<5	<10
A826696		6	24	<5	5	4	<1	<0.5	<1	<20	<5	<10
A826697		11	70	7	6	11	<1	<0.5	<1	<20	<5	<10
A826698		14	83	<5	6	12	<1	<0.5	<1	<20	<5	<10
A826699		13	68	<5	5	8	<1	<0.5	<1	<20	<5	<10
A826700		9	36	10	5	7	<1	<0.5	<1	<20	<5	<10
A826701		14	76	<5	6	7	<1	<0.5	<1	<20	<5	<10
A826702		19	148	<5	6	8	<1	<0.5	<1	<20	<5	<10
A826703		21	131	<5	8	5	<1	<0.5	<1	<20	<5	<10
A826704		15	143	<5	6	5	<1	<0.5	<1	<20	<5	<10
A826705		11	75	<5	10	5	<1	<0.5	1	<20	<5	<10
A826706		25	161	<5	6	8	<1	<0.5	<1	<20	<5	<10
A826707		18	115	<5	6	6	<1	<0.5	<1	<20	<5	<10
A826708		14	90	<5	5	7	<1	<0.5	<1	<20	<5	<10
A826709		18	72	<5	6	8	<1	<0.5	<1	<20	<5	<10
A826710		11	71	<5	4	5	<1	<0.5	<1	<20	<5	<10
A826711		11	70	<5	4	9	<1	<0.5	<1	<20	<5	<10
A826712		12	77	<5	6	7	2	<0.5	<1	<20	<5	<10
A826713		17	186	6	6	13	1	<0.5	<1	<20	<5	<10
A826714		10	76	<5	4	11	<1	<0.5	<1	<20	<5	<10
A826715		11	101	<5	6	5	<1	<0.5	<1	<20	<5	<10
A8265721		12	59	6	5	5	<1	<0.5	<1	<20	<5	<10
A8265722		11	110	7	4	5	<1	<0.5	<1	<20	<5	<10
A8265723		8	40	<5	5	5	<1	<0.5	<1	<20	<5	<10
A8265724		13	82	<5	5	5	<1	<0.5	<1	<20	<5	<10
A8265725		12	78	<5	6	7	<1	<0.5	<1	<20	<5	<10
A8265726		17	92	<5	6	10	3	<0.5	<1	<20	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ba PPM	La PPM	Ce PPM	W PPM	Pb PPM	Bi PPM	Au PPB
A826682		19	14	39	<10	13	<5	<1
A826683		21	19	50	<10	13	<5	<1
A826684		36	20	55	<10	16	<5	<1
A826685		43	20	47	<10	21	<5	<1
A826686		30	14	34	<10	15	<5	<1
A826687		30	16	42	<10	20	<5	<1
A826688		39	13	37	<10	16	<5	<1
A826689		37	16	47	<10	18	<5	<1
A826690		23	11	34	<10	18	<5	<1
A826691		30	16	49	<10	27	<5	<1
A826692		21	13	35	<10	17	<5	<1
A826693		22	13	34	<10	40	<5	<1
A826694		23	14	35	<10	16	<5	<1
A826695		27	18	48	<10	14	<5	<1
A826696		18	11	30	<10	12	<5	<1
A826697		25	17	43	<10	15	<5	<1
A826698		29	18	62	<10	18	<5	<1
A826699		21	11	39	<10	24	<5	<1
A826700		16	13	33	<10	13	<5	<1
A826701		20	11	34	<10	14	<5	<1
A826702		28	13	39	<10	15	<5	<1
A826703		43	9	24	<10	14	<5	<1
A826704		21	9	29	<10	22	<5	<1
A826705		36	9	26	<10	14	<5	<1
A826706		25	15	42	<10	23	<5	1
A826707		26	16	38	<10	16	<5	<1
A826708		19	12	33	<10	15	<5	<1
A826709		25	12	39	<10	20	<5	<1
A826710		16	9	25	<10	12	<5	<1
A826711		17	13	44	<10	15	<5	<1
A826712		25	12	38	<10	17	<5	<1
A826713		30	19	61	<10	67	<5	<1
A826714		24	15	49	<10	28	<5	<1
A826715		19	12	26	<10	16	<5	<1
A8265721		17	13	36	<10	20	<5	<1
A8265722		16	12	31	<10	18	<5	<1
A8265723		16	10	26	<10	10	<5	<1
A8265724		20	12	28	<10	12	<5	<1
A8265725		21	13	39	<10	22	<5	<1
A8265726		27	17	42	<10	21	<5	<1

APPENDIX V
SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

GEOCHEMICAL
SAMPLE PREPARATION
ROCK & SOIL

SOIL

- DRY
- SCREEN TO -80 TYLER MESH
- SUBSAMPLE 200 gms
- ASSAY: Au by DCP, 1ppb (BONDAR)
 :28 ELEMENT ICP (BONDAR)

ROCK 5kg & UNDER
MESH

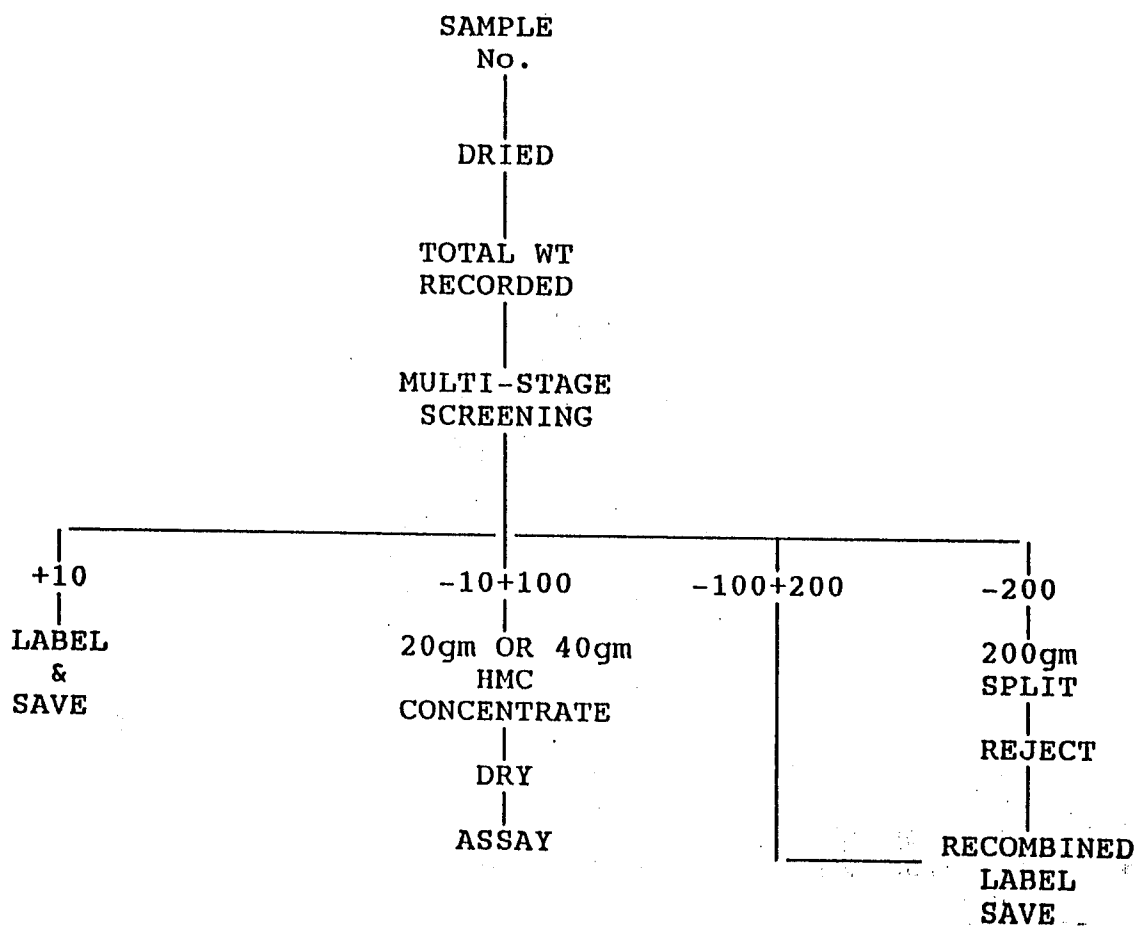
- DRY & WEIGH
- MULTI-STAGE CRUSHING TO 100% -10 TYLER
- RIFFLE SPLIT AND SUBSAMPLE 250 gms
- PULVERIZE TO -150 TYLER MESH
- ASSAY: Au by FA-AA 30 gm (BONDAR)
 :28 ELEMENT ICP (BONDAR)

*** NOTE ***

ASSAYS TO BE DONE BY BONDAR CLEGG
PREPAID BY SEABRIGHT EXPLORATION

GEOCHEMICAL
SAMPLE PREPARATION FLOW CHART FOR

** TILL SAMPLES **
** STREAM SEDS **

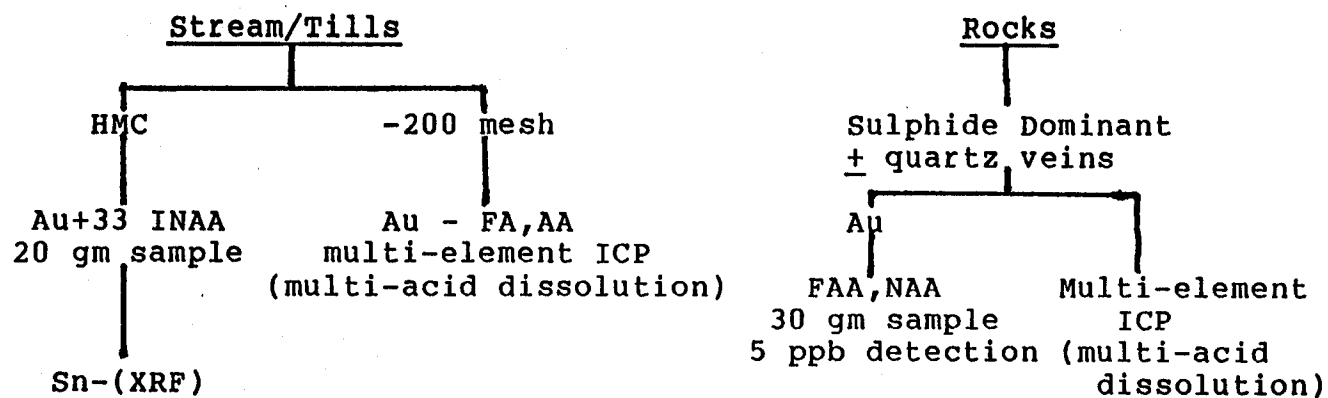


- 2) ASSAY
- 1) HMC CONCENTRATES: Gold + 33 INAA (Bondar option)
 - 2) -200gm SPLIT: Gold/ultra low detection 0.1 ppb
28 element ICP (Bondar)

*** NOTE ***

+10 & -100 WEIGHTS WILL BE RECORDED
ASSAYS TO BE DONE BY BONDAR CLEGG
PREPAID BY SEABRIGHT EXPLORATION

FLOW CHART FOR ANALYTICAL PROCEDURES



APPENDIX VI
LIST OF PERSONNEL

LIST OF PERSONNEL

Peter Webster	Project Geologist	Dartmouth, Nova Scotia
Paul Hayward	Geologist	West Dublin, Nova Scotia
David Hogg	Geologist	Dartmouth, Nova Scotia
Robert Moore	Field Assistant	Sydney, Nova Scotia
Stuart Ferguson	Field Assistant	Port Morien, Nova Scotia
Don Pollock	Supervisor	Wolfville, Nova Scotia

APPENDIX VII
LIST OF EXPENDITURES

LIST OF EXPENDITURES

<u>License</u>	<u>Salaries & Benefits</u>	<u>Geochemistry</u>	<u>10% of Required Expenditures</u>	<u>Total</u>
15248	\$ 1,925.00	\$ 1,995.00	\$ 1,280.00	\$ 5,200.00
15258	1,370.00	1,110.00	1,120.00	3,600.00
15259	2,180.00	6,020.00	1,600.00	9,800.00
15260	3,675.00	1,523.33	1,500.00	6,698.33
15261	2,140.00	2,678.33	800.00	5,618.33
15516	<u>1,350.00</u>	<u>1,190.00</u>	<u>660.00</u>	<u>3,200.00</u>
TOTALS	<u>\$12,640.00</u>	<u>\$14,516.66</u>	<u>\$ 6,960.00</u>	<u>\$34,116.66</u>



Department of
Mines and Energy

Re: Nuttby Mountain

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 15248 issued on the 27th day of November 19 89, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 260 days' work (eight-hour days) not reported before, totalling \$ 5,200.00 as per the attached list of expenditures. (Rate is one day's work for each \$20.00 spent.)

Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the required work.

The said work consisted of mapping, prospecting, stream sediment sampling

Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialled by me.

My Post Office address is Seabright Explorations Incorporated, 209 Cobequid Road,
Unit 1, Lr. Sackville, N.S. B4C 3P3 Tel. No. (902) 864-3070

Dated this 20th day of November 19 90

David H. H.
Signature of Licensee/Agent

I hereby make oath and say that the above statement is true and correct.

David H. H.
Signature of Licensee/Agent
for Seabright Expl.

Sworn to
at Halifax
in the County of Halifax

EL 15248

The NAMES and ADDRESSES of the men who performed the said work and the DATES upon which each man worked in its performance are as follows:

[illegible]



Department of
Mines and Energy

Re: Nuttby Mountain

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 15258 issued on the 24th day of November 19 89, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 180.0 days' work (eight-hour days) not reported before, totalling \$ 3,600.00 as per the attached list of expenditures. (Rate is one day's work for each \$20.00 spent.)

Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the **required** work.

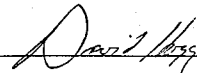
The said work consisted of mapping, prospecting, stream sediment sampling and rock
sampling

Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialled by me.

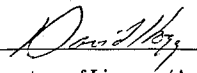
My Post Office address is Seabright Explorations Incorporated 209 Cobequid Road,

Unit 1, Lr. Sackville, N.S. B4C 3P3 Tel. No. (902) 864-3070

Dated this 20th day of November 19 90.


Signature of Licensee/Agent

I hereby make oath and say that the above statement is true and correct.


Signature of Licensee/Agent
for Seabright Expl.

Sworn to
at Halifax
in the County of Halifax

NOV 23
AND
E

EL 15258

The NAMES and ADDRESSES of the men who performed the said work and the DATES upon which each man worked in its performance are as follows:

[illegible]



Department of
Mines and Energy

Re: Nuttby Mountain

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 15259 issued on the 24th day of November 19 89, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 490.0 days' work (eight-hour days) not reported before, totalling \$ 9,800.00 as per the attached list of expenditures. (Rate is one day's work for each \$20.00 spent.)

Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the **required** work.

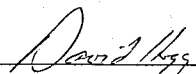
The said work consisted of mapping, prospecting, soil sampling, stream sediment sampling
and rock sampling

Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialled by me.

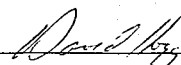
My Post Office address is Seabright Explorations Incorporated 209 Cobequid Road,

Unit 1, Lr. Sackville, N.S. B4C 3P3 Tel. No. (902) 864-3070

Dated this 20th day of November 19 90


Signature of Licensee/Agent

I hereby make oath and say that the above statement is true and correct.


Signature of Licensee/Agent

for Seabright Exp.

Sworn to
at Halifax
in the County of Halifax

NOV 23
AID

EL 15259

The NAMES and ADDRESSES of the men who performed the said work and the DATES upon which each man worked in its performance are as follows:

NAME	ADDRESS	MONTH	DATES
David Hogg	Dartmouth, N.S.	June	11,12
		May	9
Paul Hayward	West Dublin, N.S.	June	11,12
		May	9
Peter Webster	Dartmouth, N.S.	June	11,12
		November	20,21
Robert Moore	Sydney, N.S.	June	11,12,13,14
Stuart Ferguson	Port Morien, N.S.	June	11,12,13,14



Department of
Mines and Energy

Re: Nuttby Mountain

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 15260 issued on the 24th day of
November 19 89, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 334.91 days' work (eight-hour days) not reported before, totalling \$ 6,698.33 as per the attached list of expenditures. (Rate is one day's work for each \$20.00 spent.)

Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the required work.

The said work consisted of mapping, prospecting and stream sediment sampling

Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialled by me.

My Post Office address is Seabright Explorations Incorporated, 209 Cobequid Road

Unit 1, Lr. Sackville, N.S. B4C 3P3 Tel. No. (902) 864-3070

Dated this 20th day of November 19 90.

David Hyslop
Signature of Licensee/Agent

I hereby make oath and say that the above statement is true and correct.

David Hyslop
Signature of Licensee/Agent
for Seabright Expl.

Sworn to
at Halifax

ALL
Nov 2

EL 15260

The NAMES and ADDRESSES of the men who performed the said work and the DATES upon which each man worked in its performance are as follows:

[illegible]



Department of
Mines and Energy

Re: Nuttby Mountain

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 15261 issued on the 24th day of November 19 89, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 280.91 days' work (eight-hour days) not reported before, totalling \$ 5,618.33 as per the attached list of expenditures. (Rate is one day's work for each \$20.00 spent.)

Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the **required** work.

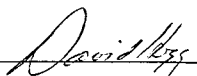
The said work consisted of mapping, prospecting and stream sediment sampling

Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialled by me.

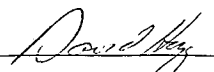
My Post Office address is Seabright Explorations Incorporated, 209 Cobequid Road,

Unit 1, Lr. Sackville, N.S. B4C 3P3 Tel. No. (902) 864-3070

Dated this 20th day of November 19 90


Signature of Licensee/Agent

I hereby make oath and say that the above statement is true and correct.


Signature of Licensee/Agent
for Seabright Expl.

Sworn to
at Halifax

EL 15261

The NAMES and ADDRESSES of the men who performed the said work and the DATES upon which each man worked in its performance are as follows:

[illegible]

Nova Scotia



Department of
Mines and Energy

Re: Nuttby Mountain

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 15516 issued on the 18th day of June 19 90, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 160 days' work (eight-hour days) not reported before, totalling \$ 3,200.00 as per the attached list of expenditures. (Rate is one day's work for each \$20.00 spent.)

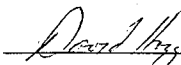
Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the **required** work.

The said work consisted of mapping, prospecting, stream sediment sampling

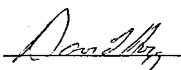
Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialled by me.

My Post Office address is Seabright Explorations Incorporated, 209 Cobequid Road,
Unit 1, Lr. Sackville, N.S. B4C 3P3 Tel. No. (902) 864-3070

Dated this 20th day of November 19 90.


Signature of Licensee/Agent

I hereby make oath and say that the above statement is true and correct.


Signature of Licensee/Agent
for Seabright Exp!

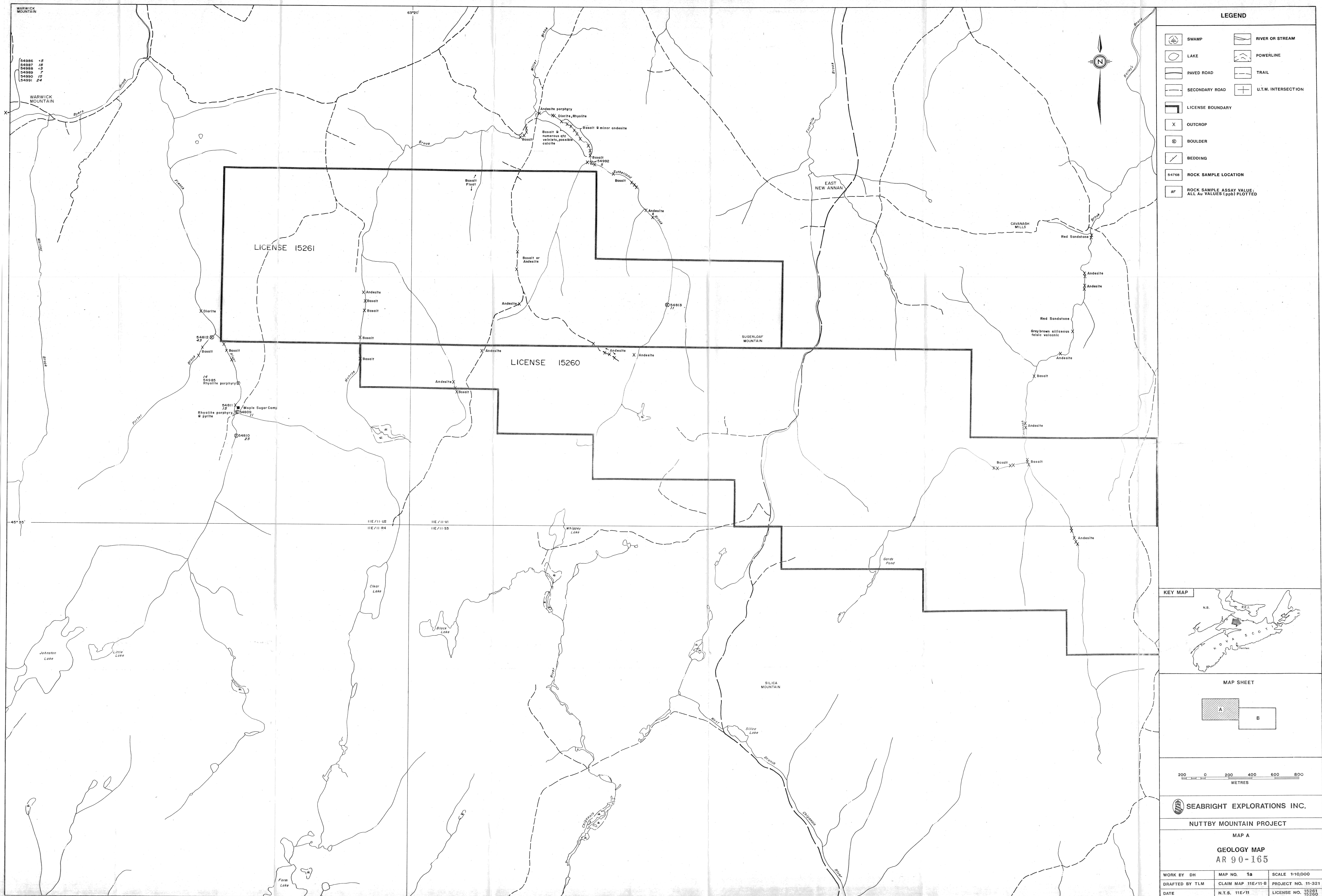
Sworn to
at Halifax

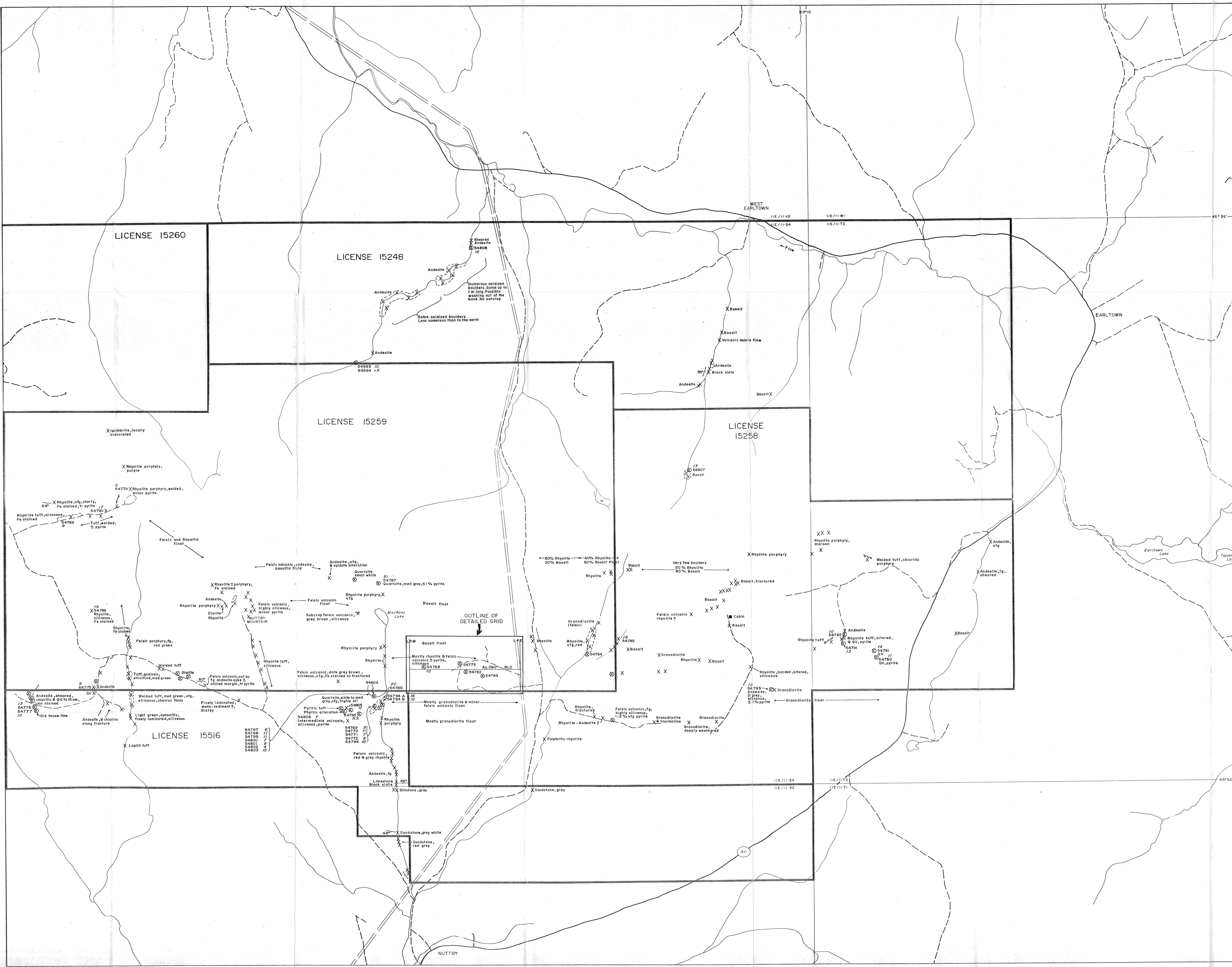
Nov 23
AM

EL 155/6

The NAMES and ADDRESSES of the men who performed the said work and the DATES upon which each man worked in its performance are as follows:

NAME	ADDRESS	MONTH	DATES
<u>David Hogg</u>	<u>Dartmouth, N.S.</u>	<u>September</u>	<u>8,11,12</u>
<u>Peter Webster</u>	<u>Dartmouth, N.S.</u>	<u>Juen</u>	<u>17,18,19,20,21,22</u>





LEGEND

	SWAMP		RIVER OR STREAM
	LAKE		POWERLINE
	PAVED ROAD		TRAIL
	SECONDARY ROAD		U.T.M. INTERSECTION
	LICENSE BOUNDARY		BEDDING
	OUTCROP		QUARTZ VEIN
	BOULDER		TRACE
	EXTENT OF OUTCROP		VERY FINE GRAINED
	EXTENT OF BOULDERS		IRON
	ROCK SAMPLE LOCATION		
	ROCK SAMPLE ASSAY VALUE: ALL Au VALUES (ppb) PLOTTED		

KEY MAP

MAP SHEET

SCALE

SEABRIGHT EXPLORATIONS INC.

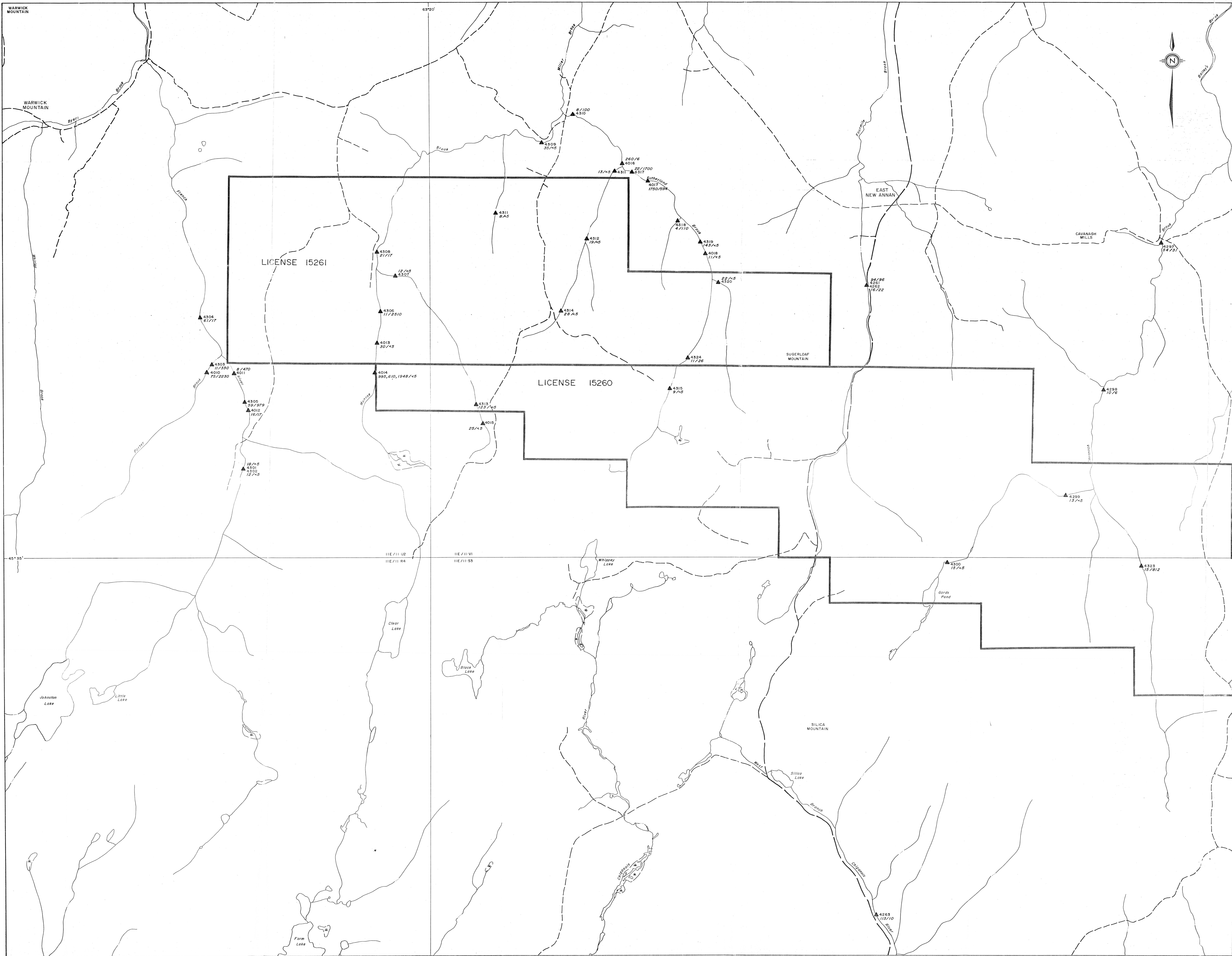
NUTTBY MOUNTAIN PROJECT

MAP B

GEOLOGY MAP

AR 90-165

WORK BY DH	MAP NO. 1b	SCALE 1:10,000
DRAFTED BY TLM	CLAIM MAP 11E/11-A	PROJECT NO. 11-321
DATE NOV. 22/90	N.T.S. 11E/11	LICENSE NO.



LEGEND

SWAMP	RIVER OR STREAM
LAKE	POWERLINE
PAVED ROAD	TRAIL
SECONDARY ROAD	U.T.M. INTERSECTION
LICENSE BOUNDARY	
STREAM SEDIMENT SAMPLE LOCATION; PREFIXED BY BB	
STREAM SEDIMENT SAMPLE ASSAY VALUES; 200 MESH / HMC ppb Au	

KEY MAP

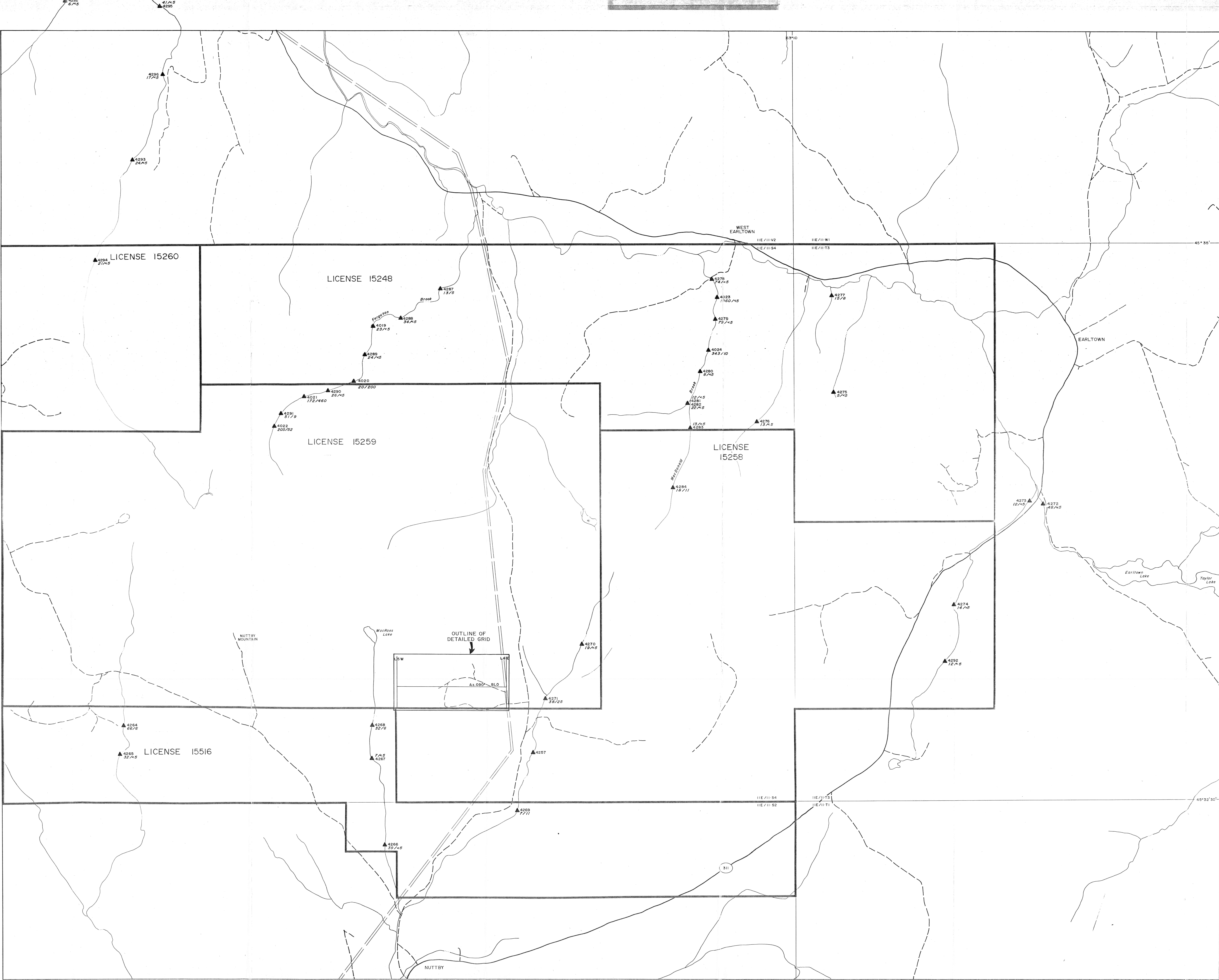
MAP SHEET

SEABRIGHT EXPLORATIONS INC.

NUTTBY MOUNTAIN PROJECT

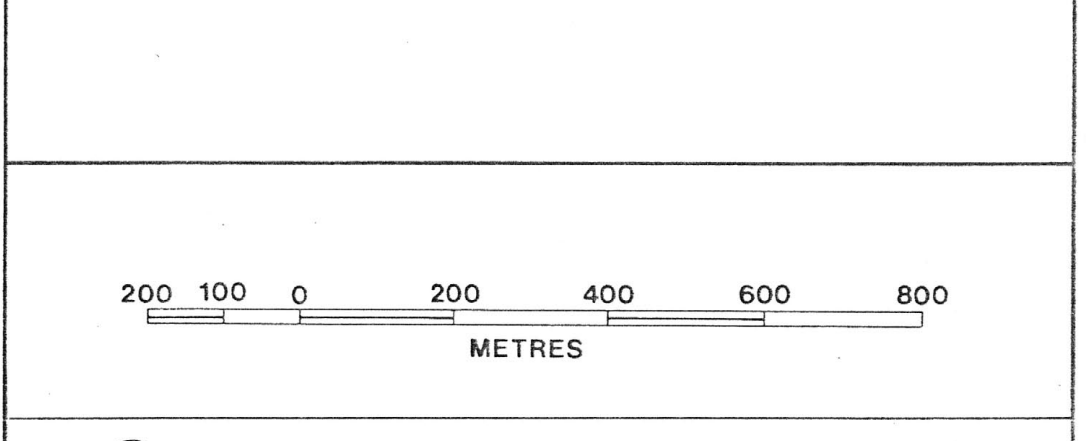
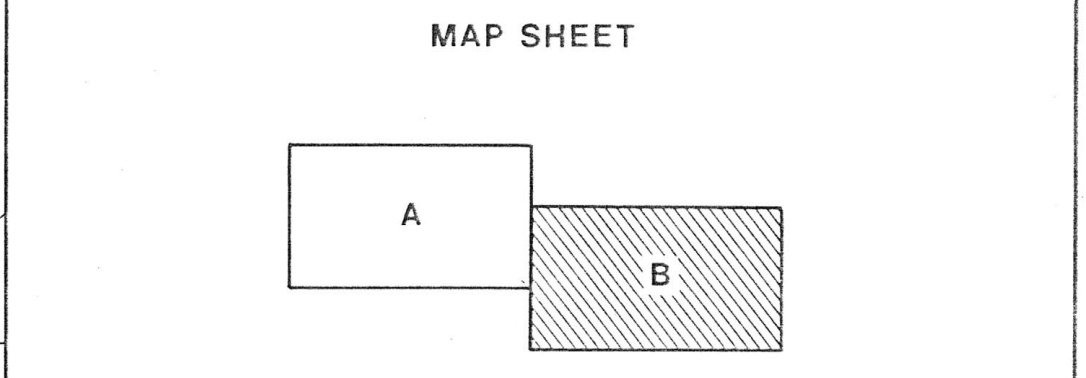
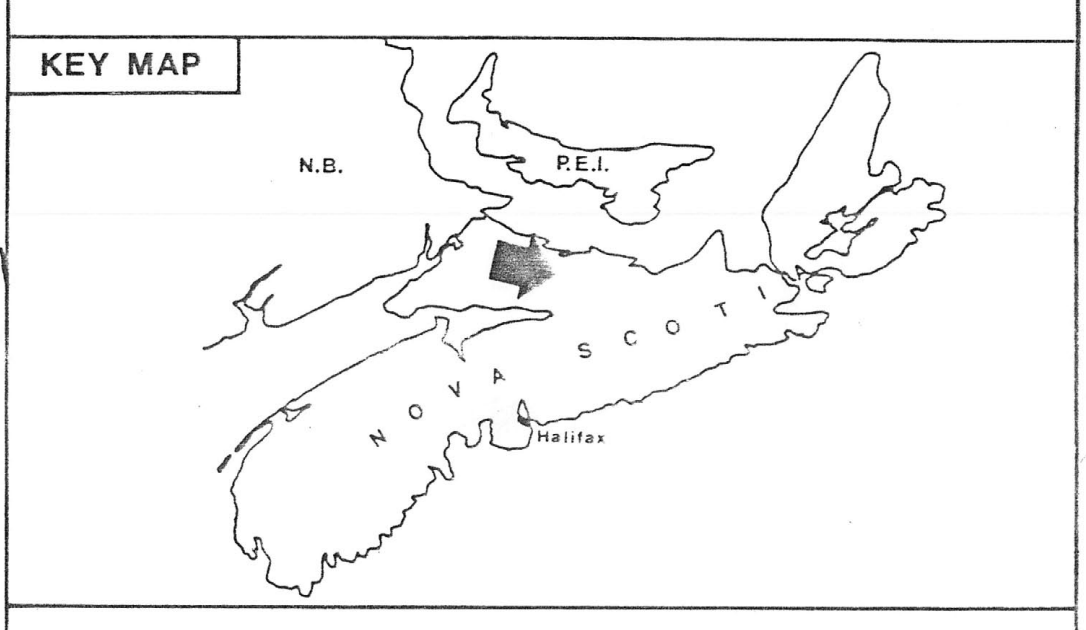
MAP A
STREAM
GEOCHEMISTRY MAP
AR 90-165

WORK BY DH	MAP NO. 2a	SCALE 1:10,000
DRAFTED BY TLM	CLAIM MAP 11E/11-B	PROJECT NO. 11-321
DATE	N.T.S. 11E/11	LICENSE NO. 15261 15260



LEGEND

SWAMP	RIVER OR STREAM
LAKE	POWERLINE
PAVED ROAD	TRAIL
SECONDARY ROAD	U.T.M. INTERSECTION
LICENSE BOUNDARY	
STREAM SEDIMENT SAMPLE LOCATION; PREFIXED BY BB	
STREAM SEDIMENT SAMPLE ASSAY VALUES; -200 MESH / HMC ppb Au	



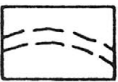
SEABRIGHT EXPLORATIONS INC.

NUTTBY MOUNTAIN PROJECT

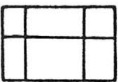
MAP B
**STREAM
GEOCHEMISTRY MAP**
AR 90-165

WORK BY DH	MAP NO. 2b	SCALE 1:10,000
DRAFTED BY TLM	CLAIM MAP 11E/11-A	PROJECT NO. 11-321
DATE NOV. 22/90	N.T.S. 11E/11	LICENSE NO.

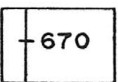
LEGEND



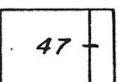
GRAVEL ROAD



FLAGGED GRID

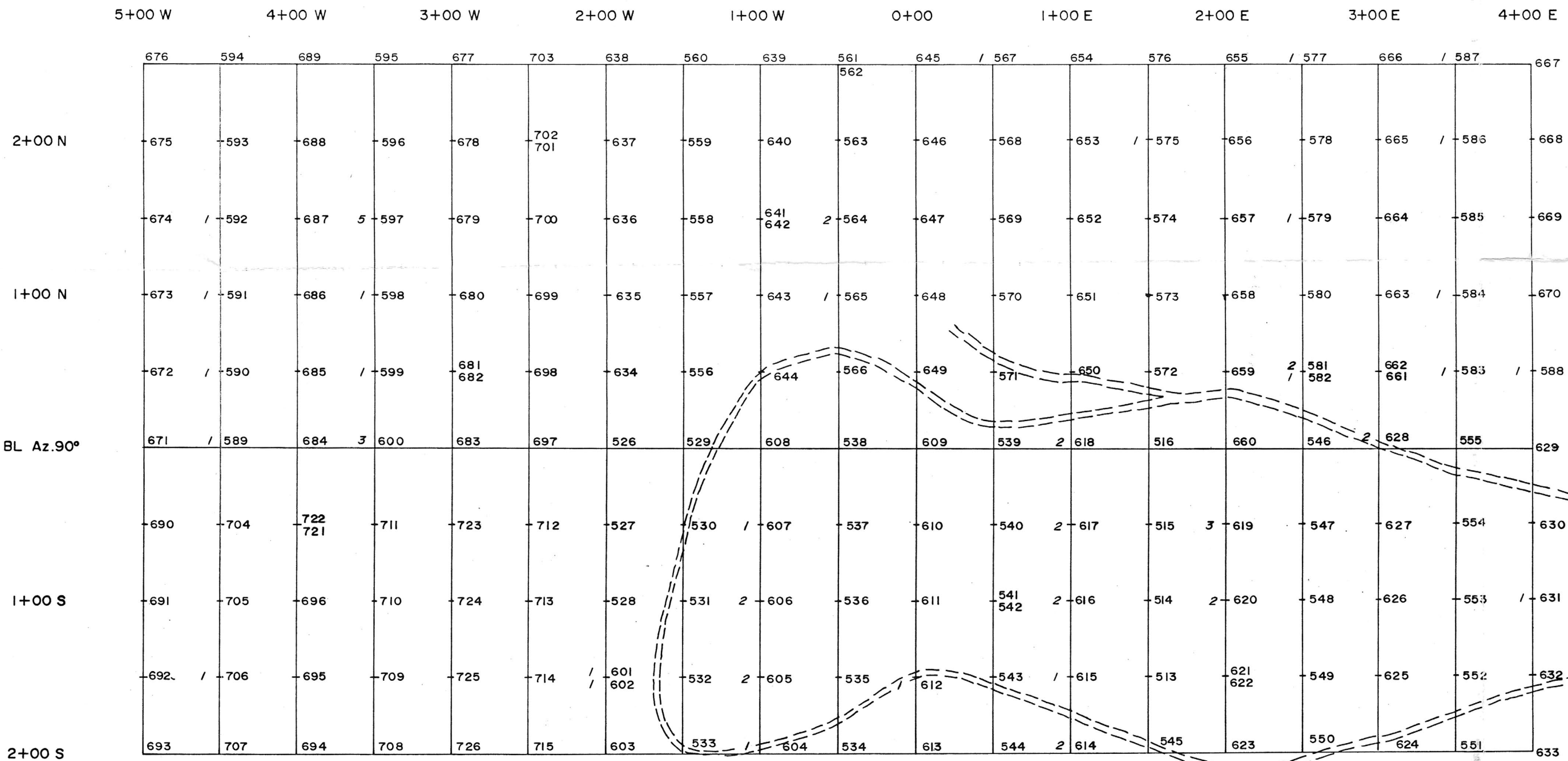


SOIL SAMPLE LOCATION; PREFIXED BY AB26



SOIL SAMPLE ASSAY VALUE;
ALL Au VALUES ≥ 1 ppb PLOTTED

LICENSE 15259



SEABRIGHT EXPLORATIONS INC.

NUTTBY MOUNTAIN PROJECT

GRID A

GEOCHEMISTRY MAP

AR 90-165

WORK BY PW	MAP NO. 3	SCALE 1:2500
DRAFTED BY TLM	CLAIM MAP 11E/11-A	PROJECT NO. 11-321
DATE NOV 22/90	N.T.S. 11E/11	LICENSE NO. 15259